Phase I

Environmental Site Assessment 102 Lansing Street Charlotte, Michigan

City of Charlotte Brownfield Redevelopment Authority

NTH Project No. 16-060849-10 December 10, 2009

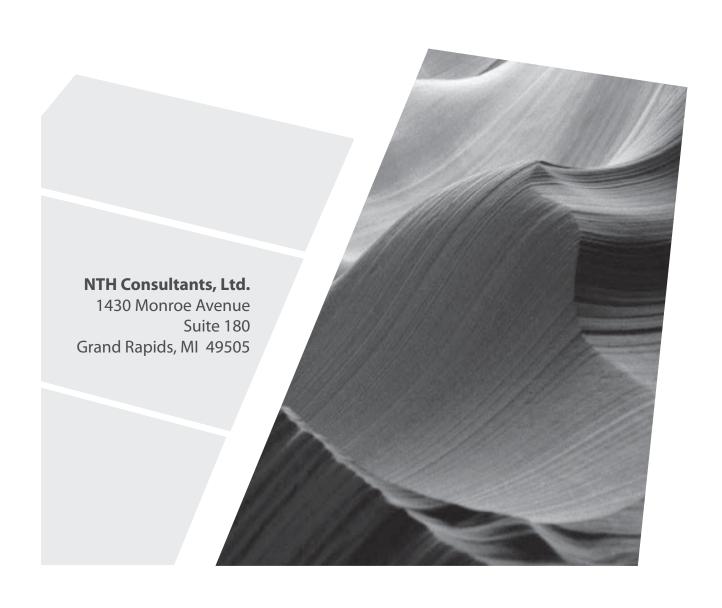




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1.0 EXECUTIVE SUMMARY

This report presents the results of a Phase I Environmental Site Assessment (ESA) for Parcel No. 200-080-500-011-00 (102 Lansing Street). The property is located on the east side of Lansing Street, between the railroad and Pleasant Street, Charlotte, Eaton County, Michigan. The property houses an ice cream parlor, which consists of a service window and prep areas with asphalt covered parking lot and a picnic area in the eastern portion of the property.

The Phase I ESA was performed in general accordance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E 1527-05, which is consistent and compliant with EPA's All Appropriate Inquiries (AAI) rule. This assessment has revealed the following evidence of recognized environmental conditions (RECs) associated with the property:

- Former use of the property as a filling station.
- Three nearby sites where USTS were formerly located and the site assessment data did not include groundwater assessments including establishing a groundwater flow direction.

The Executive Summary should not be reviewed separately from the remainder of the report. The Executive Summary provides an overview and is not a substitute for a through review of the entire report.



2.0 INTRODUCTION

NTH Consultants, Ltd. (NTH) was retained by the City of Charlotte Brownfield Redevelopment Authority (CBRA) to perform a Phase I Environmental Site Assessment (ESA) of the 102 Lansing Street Property in Charlotte, Eaton County, Michigan. A map showing the location of the Property is included as Figure No. 1 in Appendix A. The layout of the property is shown on Figure No. 2 in Appendix A. The source of Figure 2 is an aerial photograph obtained from the City of Charlotte.

NTH conducted this Phase I ESA study in general accordance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E 1527-05, entitled: "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," which is consistent and compliant with EPA's All Appropriate Inquiries (AAI) rule.

2.1 Purpose

The objective of the Phase I ESA was to provide the authorized users of this report with an independent opinion regarding recognized environmental conditions, if any, associated with the property. According to ASTM Practice E 1527-05, Section 1.1.1, the term *recognized environmental condition* (REC) means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not recognized environmental conditions.

2.2 Detailed Scope of Services

The following activities were performed as part of this Phase I ESA:



- A visual survey of the property was performed to identify areas of potential environmental concerns
 or RECs. Color photographs were taken to document observed surface features. These photographs
 are presented in Appendix B.
- The neighboring properties were observed to assess whether surface conditions or activities on these properties may have an adverse environmental impact on the property. An attempt was made to determine the previous uses of the adjacent properties through review of information compiled during this Phase I ESA.
- An approximate 98-year land use history of the property was developed.
- Readily available published information was collected and reviewed relating to general geology,
 hydrogeology and topographic setting for the property.
- A regulatory agency file search was performed to identify Federal and State-listed sites of known or
 potential environmental concerns located within the minimum search distances from the property,
 as specified in the ASTM Practice E 1527-05.
- Local governmental agency personnel were contacted to determine their knowledge of reported environmental incidents at or in the immediate vicinity of the property.
- The information developed during this study was evaluated, and this report was prepared.

2.3 Significant Assumptions

During the course of this study, various documents and other information published by and obtained from private organizations, as well as Municipal, State and Federal regulatory agencies have been relied upon. No independent verification or confirmation of the accuracy of this information has been performed. Additionally, information provided by the property owner and our client was presumed to be factual, unless written documentation was available indicating otherwise.



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2.4 Limitations and Exceptions

The evaluations and opinions presented in this report have been made to assist the client in making a reasonable assessment of risk with respect to the presence of possible environmental concerns at the property. This study has been performed in accordance with a standard of care and diligence, which is considered to be representative of the local environmental engineering practice at the present time.

The evaluations and opinions presented in this report are based on the scope of services defined herein, and should not be misconstrued as those pertaining to a formal environmental compliance audit. The results of this study cannot be construed as a certification of the absence of any contaminants on the property, but rather a diligent and prudent review of available data within an established work scope, and time and budgetary constraints.

Limiting conditions encountered during the performance of the Phase I ESA are described in appropriate sections of this report.

2.5 Special Terms and Conditions

The services for this Phase I ESA were performed in accordance with NTH's contract with the CBRA.

2.6 User Reliance

This report is intended for the exclusive use of CBRA. This report presents NTH's opinion of the Property as of this date, based on the results of this study and the information provided during the course of the study. The results of this study may not be relied upon by parties other than those identified above without the prior knowledge and written consent of NTH.



3.0 SITE DESCRIPTION

3.1 Location and Legal Description

The property is located in the southwest ¼ of the northwest ¼ of Section 18, Township 2 North, Range 4 West, Charlotte, Eaton County, Michigan. The property is located on the east side of Lansing Street north of Pleasant Street. A map showing the location of the property is included as Figure No. 1 in Appendix A of this report.

The property is comprised of one parcel. Parcel No. 200-080-500-011-00 (102 Lansing Street) is approximately 0.43 acres in size. The property layout is shown on Figure No. 2 in Appendix A. Information obtained from the City of Charlotte Assessor's office is included in Appendix A.

3.2 Site Vicinity and Characteristics

The property is located in a mixed residential and commercial area that is serviced by the municipal potable water supply and sanitary sewer systems provided by the City of Charlotte, as well as natural gas and electric utilities.

3.3 Description of Structures, Roads and Other Improvements

The property contains one slab-on-grade building which is approximately 448 square feet in size, and has an unknown date of construction. Asphalt parking areas surround the building on three sides, and a sidewalk and Lansing Street border the western side of the building. A railroad borders the property to the north. The eastern portion of the property is a vacant grassy area with picnic tables for outdoor eating.

3.4 Current Uses of the Property

The building is currently unoccupied as the business is a seasonal business that only operates in the summer months.



3.5 Current Uses of Adjoining Properties

NTH conducted a visual survey of the adjacent properties to identify off-site sources that might environmentally impact the property. The adjacent properties were observed and identified from the boundaries of the property and readily accessible public right-of-ways. Observed land uses in the immediate vicinity of the property are listed below.

Location	Features	Observed Environmental Concerns
North	Railroad Tracks, Gale Street, Advance Auto Parts Store	None noted
East	Residential and railroad tracks	None noted
South	Residential	None noted
West (across East		
Lawrence Avenue	Residential, Hayes Green Beach	None noted
and Lansing	Memorial Hospital, Medical Plaza	Notic floted
Street)		

For ease of reference, the locations of adjacent properties are shown on Figure No. 2 in Appendix A.

4.0 USER PROVIDED INFORMATION

NTH's Phase I ESA User's Questionnaire was provided to Mr. Eric Crandell of Emerald Realty & Development, LLC. As of date of this report a completed questionnaire has not been received.

4.1 Title Records

Title records for the property were not provided to us during the current study. Instead, NTH used other available sources (i.e., historical aerial photographs, topographic maps, review of municipal records, interviews, etc.) to determine historical uses of the property.



4.2 Environmental Liens and Activity Use Limitations

As of the date of this report a completed User Questionnaire was not received.

Information obtained from Michigan Department of Environmental Quality (MDEQ) Remediation and Development Division website indicated that no environmental liens are recorded against the property as of November 24, 2009.

4.3 Specialized Knowledge

As of the date of this report a completed User Questionnaire was not received.

4.4 Commonly Known or Reasonably Ascertainable Information

As of the date of this report a completed User Questionnaire was not received.

4.5 Valuation Reduction for Environmental Issues

As of the date of this report a completed User Questionnaire was not received.

4.6 Owner, Property Manager, and Occupant Information

According to the City of Charlotte Assessor's Office, the 102 Lansing Street property is owned by Fayetta and Chester Binkowski.

4.7 Reason for Performing the Phase I ESA

The reason for performing the Phase I ESA was to provide the authorized users of this report with an independent evaluation of the environmental risks associated with the subject property and to qualify for a limited liability protection to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability.



5.0 RECORDS REVIEW

NTH reviewed various records to determine 1) the potential risk to the property from onsite and offsite sources of environmental concern; 2) the local geology and hydrogeology of the area; 3) historical uses of the Site; and 4) historical uses of adjacent properties. These records were reviewed to help identify RECs, if any, associated with the property.

NTH reviewed readily available regulatory information to assess the possible risk for environmental liabilities at the property from regulatory action, hazardous material spills, or documented hazardous waste disposal at the property or nearby properties (i.e., properties located within ASTM-specified search distances from the property). This information was obtained from: (1) a review of information included in the EDR-Radius Map report and review of available MDEQ information (Section 5.1), and (2) a review of information obtained from the local environmental health and fire departments (Section 5.2).

5.1 Standard Environmental Record Sources

Environmental Data Resources, Inc. (EDR), a private environmental information agency, was retained to perform a regulatory agency database search to evaluate the possible presence of federal and state-listed sites of known or potential environmental concerns that may be located within the minimum search distances from the property. As specified in Section 8.2.1 of ASTM Practice E 1527-05, search distances for various record sources generally range from adjacent sites to sites located up to one mile away. A list of the state and federal databases researched by EDR for the current study, along with the respective search distances and a brief description of each database are presented in the EDR report. For ease of reference, the entire EDR report, dated November 30, 2009, is included in Appendix C of this report.

The EDR report identified 34 sites, of which 23 sites were plotted on a street map and 11 sites were listed as "orphan sites." The orphan sites could not be plotted by EDR on a map due to lack of proper addresses or other pertinent information required for precise computer plotting, and as such could only be located within the city, county or zip code area of the property.



Following review of the EDR report, a drive-through reconnaissance of the area was conducted to confirm the locations of the plotted sites and to locate the orphan sites. The following EDR-identified sites are located in close proximity (less than one-eighth of a mile) to the property:

- Advance Auto Parts (106 Lansing Street): This site is located approximately 230 feet north northeast of the Property, and is listed in the Facility Index System/Facility Registry System (FINDS) and Resource Conservation and Recovery Act (RCRA) databases as a Conditionally-Exempt Small Quantity Generator (CESQG) of hazardous wastes. The FINDS database contains references to records from government databases and may also contain references to out of date records formerly associated with a site. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by RCRA. The RCRA-CESQG listing indicates that they generate, store, treat or dispose less than 100-kg hazardous waste, or less than 1-kg of acutely hazardous waste, per month. No violations have been reported, therefore, this site is not expected to have an adverse environmental impact on the Property.
- rormer Bay Petroleum Station (109 Lansing Street): This site is located approximately 250 feet north northeast of the Property, and is listed in the Leaking Underground Storage Tank (LUST), Underground Storage Tank (UST), above ground storage tank(AST) and Baseline Environmental Assessment (BEA) databases. According to the EDR Report, this site had a release of gasoline on December 2, 2002 and a release of used oil on June 24, 2003. Both releases are closed. Files available at the Michigan Department of Environmental Quality (MDEQ) were reviewed. The files indicated soil contaminant concentrations are present at the site above the protective of drinking water and direct contact soil clean up criteria. The site is serviced by the municipal water system, however, since direct contact was exceeded a deed restriction was put into place restricting the disturbance of the soils and specifying proper disposal of the soils, if necessary. The exceedance of the clean up criteria makes the site a facility. Groundwater was not evaluated for the gasoline release or for the BEA. One groundwater sample was collected from near the former used oil UST. The water sample did not exhibit any contaminants. There is no data indicating the groundwater flow direction or potential migration of the contaminants. The potential for this site to impact the Property cannot be determined therefore this site is considered a REC.



- Hayes Green Beach Hospital (321 E Harris Street): This site is located approximately 600 feet west
 northwest of the Property, and is listed in the LUST and UST databases. According to the EDR report,
 the site has contained at least four USTs. One 6,000 gallon diesel tank remains in use. Three USTs that
 have been removed from the site consisted of the following:
 - Two (2) 300-gallon diesel tanks were installed in January 1981 and removed in October 1994.
 - One (1) 1,000-gallon tank was installed in April 1956 and removed in August 1994.

Due to the proximity to the site, files available at the Michigan Department of Environmental Quality (MDEQ) were reviewed.

MDEQ file information included the following reports:

- Report of Initial Abatement, November 4, 1994;
- Initial Assessment Report December 16, 1994;
- Soil Corrective Action Plan December 22, 1994;
- Soil Feasibility Analysis March 15, 1995;
- Closure Report December 25, 1995.

A release of diesel was reported in October 1994, and the release was closed in June 1996. Hand Auger soil borings were completed at the property and no groundwater was encountered or evaluated. There is no data indicating the groundwater flow direction or potential migration of the contaminants. The potential for this site to impact the Property cannot be determined therefore this site is considered a REC.

Charlotte Gas Co. (321 and 401 Railroad Street): This property is located approximately 800 feet north northwest of the property, and is listed in the Manufactured Gas Plants database.
 Contamination is present on the site and is migrating off the property to the east. The plume is defined to the south, west and north and the groundwater flow direction is east, which is away from the property. Therefore, any groundwater contamination that may be present at the site is not expected to have an adverse environmental impact on the property.



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Darwiche LLC, LN Gas & Mini Mart (221 E. Lawrence Avenue): This site is located approximately
 1,000 feet west southwest of the Property, and is listed in the LUST and BEA databases.

According to the EDR report, this site had a reported release of gasoline in March of 1992. The release is still open. An open release means that contamination has been identified at the site, but the contamination has not been properly assessed and/or remediated in accordance with applicable regulatory guidelines.

Due to the open LUST status, files available at the MDEQ were reviewed.

MDEQ file information included the following reports:

- Report of Initial Abatement, Superior Environmental Corp., April 6, 1992;
- Report of Initial Site Characterization, Free Product Investigation, and Site Investigation Work
 Plan, Superior Environmental Corp., May 1, 1992;
- Limited Phase II Environmental Site Assessment, ESA1, July 11, 2006;
- Ground Penetrating Radar Survey, ESA1, July 17, 2006;
- Petition for Baseline Environmental Assessment (Category N), ESA1, May 14, 2007.

According to the 1992 Superior reports, seven soil borings were drilled to an approximate depth of 30 feet below ground surface. Total petroleum hydrocarbon (TPH) contamination was identified at each boring location at approximately 10 feet below ground surface. Subsurface soils were characterized as sand and gravel, and no groundwater was encountered to the maximum depth explored of 30 feet.

According to the 2006 and 2007 reports prepared by ESA1, five underground storage tanks are present at the property. The tanks range in size from 4,000 to 10,000 gallons, and are used to store gasoline, diesel, and kerosene. The ground-penetrating radar survey revealed a possible 6th UST on the site. The limited Phase II ESA included drilling five soil borings to 16 feet below grade and sampling three existing monitoring wells. Groundwater was measured at approximately 29 to 30 feet below ground surface in the monitoring wells. Soil samples were collected from approximately 15 to 16 feet below ground surface and tested for contaminants associated with gasoline and diesel fuel. No contamination was detected in soil samples. Lead



was detected in the groundwater at a concentration exceeding MDEQ's generic residential drinking water criteria.

There is no data indicating the groundwater flow direction or potential migration of the contaminants. It does not appear that the open release has been properly characterized and the groundwater flow direction in the area is unknown. The potential for this site to impact the Property cannot be determined therefore this site is considered a REC.

The remaining EDR identified sites are located more than one-eighth of a mile away from the subject property. Based on their locations and distances, the remaining sites are not expected to have an adverse environmental impact on the property.

5.2 Additional Environmental Record Sources

Local Health Department

A Freedom of Information Act (FOIA) request was sent to the Barry-Eaton County Environmental Health Department on December 2, 2009. The health department indicated the property is connected to the municipal water and sewer system and they have no record of well or septic permits. They do not know of any environmental concerns for the property.

Local Building Department

A review of the City of Charlotte's Building Department files for the property did not identify any former buildings or recorded incidents of environmental concern (i.e., hazardous materials storage, underground storage tanks, above ground storage tanks).

Local Fire Department

A review of the City of Charlotte's Fire Department files for the property did not identify any recorded incidents of environmental concern (i.e., spills or hazardous materials responses).



5.3 Physical Setting Sources

The physical setting sources for the property were determined based on a review of readily available published information and visual observations made during the site reconnaissance. As described in the following subsections, the physical setting includes topography, soil, hydrology, hydrogeology, and related attributes.

5.3.1 Topography

Information on the topography of the property was obtained from the USGS "Charlotte, Michigan" topographic map. Based on this map, the subject property exhibits a fairly level topography with a USGS elevation of approximately 912 feet above mean sea level. The general topographic gradient is to the east.

5.3.2 Soil

The *USDA Soil Conservation Service's* database STATSGO was used by EDR to determine the type of soil at the property. The near-surface soils in the area are expected to consist of Capac loams.

5.3.4 Hydrology

According to the EDR report, which searched the FEMA database, the property is not located within a 100-year or 500-year flood zone.

5.3.5 Hydrogeology

Based on information contained in MDEQ files for the 109 Lansing Street site located approximately 250 feet north of the property, subsurface soils consist of sand and gravel to at least 32 feet below grade.

Groundwater was reported to be approximately 30 feet below ground surface.

5.3.6 Oil and Gas Wells

According to information provided in the EDR report, no oil or gas wells are located at or in the immediate vicinity of the property.



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5.4 Historical Use Information on the Property

Consistent with Section 8.3 of ASTM E 1527-05, a historical search was conducted to determine the previous uses of the Property. Only historical sources, which could be reasonably ascertained and judged likely to be useful, were obtained and reviewed during the current study. The following sections present the results of the historical searches conducted during this study.

5.4.1 Information Provided by the Property Owner

NTH's Phase I ESA Owner Questionnaire was sent to Mr. and Mrs. Binkowski, the current property owners. As of the date of this report, a completed questionnaire has not been received from the Binkowski's. The Binkowski's provided NTH with a copy of a Phase II ESA Report dated May 11, 1995, completed by Soils and Materials Engineers, Inc. (SME). The Phase II ESA activities were completed to assess a former gasoline service station that was present at the subject property. SME completed a total of six hand auger soil borings to a maximum depth of eight feet below ground surface. SME collected soil samples from varying depths and no field evidence of contamination was found. Groundwater was not encountered during the soil boring activities. The analytical results from the soil boring activities did not indicate the presence of any gasoline indicator parameters.

5.4.2 Local Governmental Agency Records

Refer to Section 5.2.

5.4.3 City Directories

NTH retained EDR to review historic street address directories dating back to 1929 (i.e., the date of the earliest directory) for the available address to determine past property occupants. Based on available records, the northern portion of the property has had the address range of 100 to 106 Lansing Street. The following tables contain information on past property occupants.

Vanu	Occupant			
Year	100, 102, 104, 106 Lansing Street			
1929	Mutual Oil Co. (100 Lansing Road)			
1944	Address not listed			



Year	Occupant			
	100, 102, 104, 106 Lansing Street			
1947	Address not listed			
1951	Address not listed			
1957	Charlotte Tastee Freeze (106 Lansing Street)			
1962	Charlotte Tastee Freeze (104 Lansing Street)			
1968	Tastee Freeze (102 Lansing Street)			
1973	Tastee Freeze (104 Lansing Street)			
1978	Vacant Bldg. (104 Lansing Street)			
1983	Charlotte Tastee Freeze (102 Lansing Street)			
1988	Tasty Twist (102 Lansing Street)			
1993	Tasty Twist (102 Lansing Street)			
1999	Charlotte Tasty Twist (102 Lansing Street)			
2004	Charlotte Tasty Twist (102 Lansing Street)			
2009	Charlotte Tasty Twist (102 Lansing Street)			

5.4.4 Sanborn Fire Insurance Maps

NTH retained EDR to conduct a search of Sanborn fire insurance maps for the property. Sanborn maps are primarily used by insurance companies to assess fire risks, and when available for a particular property, they can provide relevant information about the history of the property.

Four (4) maps covering the subject property and adjacent properties, dated 1911, 1918, 1927, and 1950 were provided by EDR. Copies of these maps are included in Appendix C. Our review of these maps indicates the following past property and surrounding property uses:

Year	Observed Features 102 Lansing Street			
1911	Vacant			
1918	Vacant			
1927	Filling Station			
1950	Vacant			



5.4.5 Aerial Photographs

NTH obtained copies of historical aerial photographs dated 1938, 1950, 1960, 1967, 1974, and 1981 from EDR. These aerial photographs were reviewed to determine past uses and changes in surface features that might indicate possible environmental concerns. However, due to the scale and resolution of the photographs, and the small size of the Property, features were not discernable.

5.4.6 USGS Topographic Maps

Historical USGS "Charlotte, Michigan" topographic maps dated 1949 and 1980 were reviewed to determine past uses of or changes in the Site. The referenced maps show the Property is located in the general urban setting of the City of Charlotte, but do not depict any specific surface features such as buildings.

5.4.7 Past Use Summary

The historical research to determine the past uses of the Property was conducted in accordance with Section 8.3 of the ASTM Practice E 1527-05. The following table summarizes the past uses of the Property:

Voor	Property Occupants and/or Suspected Uses	Sources
Year	100-106 Lansing Street	
1911-1918	Vacant lot	Sanborns
1927-1929	Filling Station	Sanborns and city directory
1950	Vacant	Sanborns
1957-2009	Ice cream parlor	City directory and Site Walk

5.5 Historical Use Information on Adjoining Properties

Past uses of adjacent properties, as determined through a review of the previously referenced historical Sanborn Maps (SB) and City Directories (CD) are as follows:



Year / Source			West (across Lansing Street.)	
1911/SB	Railroad tracks, and dwellings	Not Shown – No Exposure	Vacant and dwellings	Vacant and dwellings
1918 / SB	Railroad tracks, and dwellings	Not Shown – No Exposure	Vacant and dwellings	Vacant and dwellings
1927 / SB	Railroad tracks, Clever Bros Coal and Cement,	Not Shown – No Exposure	Vacant and dwellings	Vacant and dwellings
1929 / CD	Clever Construction	No information provided	No information provided	Dwellings
1944 / CD	Clever Implement & Coal Co.	No information provided	No information provided	No information provided
1947 / CD	Clever Implement & Coal Co.	No information provided	No information provided	No information provided
1950 / SB	Clever Implement & Coal Co.	Not Shown – No Exposure	No information provided	Dwellings
1951 / CD	Vacant	No information provided	No information provided	No information provided
1957 / CD	No information provided	No information provided	No information provided	No information provided
1962 / CD	C&C Auto Wash	No information provided	No information provided	No information provided
1968 / CD	Jensen Fell Inc.	No information provided	No information provided	No information provided
1973 / CD	Tom Rutherford Body Shop	No information provided	No information provided	No information provided
1978 / CD	Vacant	No information provided	No information provided	No information provided
1983 / CD	Charlotte Tire, Inc. Tuff-Kote Dinol	No information provided	No information provided	No information provided
1988 / CD	Spartan Tire Co.	No information provided	No information provided	No information provided
1993 / CD	Spartan Tire Store	No information provided	No information provided	No information provided
2004 / CD	Advance Auto Parts	No information provided	No information provided	No information provided
2009 / CD	Advance Auto Parts	No information provided	No information provided	No information provided
2009 / site walk	Railroad Tracks, Gale Street, Advance Auto Parts	Residence	Residence	Residence



The referenced City Directory and Sanborn Maps did show features or activities on the adjacent properties that could be expected to have an adverse environmental impact on the Property.

6.0 SITE RECONNAISSANCE

A visual survey of the property was conducted to observe surface features indicative of potential environmental concerns or RECs.

6.1 Methodology and Limiting Conditions

A visual survey of the property was conducted on December 2, 2009 by Ms. Sherry Kirkbride of NTH.

During the survey, the property was observed for evidence of potential environmental concerns or RECs such as stressed vegetation, stained surface soil, and improper waste disposal practices. Furthermore, land use in the immediate vicinity of the property was also determined.

The visual survey was conducted by walking the interior portion of the buildings and the perimeter of the property, and randomly traversing the property, where accessible. Limiting conditions that were encountered are listed below.

Could not access the interior of the Tasty Twist building.

6.2 General Site Setting

The property is located in a commercial and residential area of downtown Charlotte, Michigan. A map showing the location of the Property is presented as Figure No. 1 in Appendix A of this report. The approximate configuration of the Property is shown on Figure No. 2 included in Appendix A. Figure 2 was produced from an aerial photo obtained from the City of Charlotte, and should be considered as a preliminary reference drawing and should not be used as a legal boundary survey.

Color photographs of the property taken during the visual survey are included in Appendix B.



6.3 Exterior Observations

6.3.1 General Observations

The parcel is approximately 0.43 acres in size and contains one slab on grade building used as an ice cream shop. Around the ice cream shop is asphalt covered parking and in the rear of the property is a picnic area with tables. The building is located in the central western portion of the property. A dumpster was located in the north-central portion of the property.

NTH personnel did not observe evidence of RECs on the exterior portions of the property during the site reconnaissance on December 2, 2009.

6.3.2 Storage Tanks

NTH did not observe any visual evidence, such as fill pipes and vent pipes, of the presence of aboveground storage tanks (ASTs) or underground storage tanks (USTs) at the property.

6.3.3 Polychlorinated Biphenyls (PCBs)

The property was surveyed to identify liquid-cooled electrical units, such as transformers and capacitors. These types of units are of possible concern because they may be potential PCB sources. PCB units may subject the owner/operator to various regulatory requirements under Toxic Substances Control Act (TSCA). The release of PCB fluids or their combustion products (in case of spill or fire) are potential environmental liabilities and may require costly remediation. No potentially PCB-containing equipment was observed on the property during the site reconnaissance.

6.4 Interior observations

The building was locked and inaccessible therefore, NTH observed the interior through windows.

6.4.1 General Observations

There are two service windows for taking orders and giving out product. There were ice cream machines and a prep table area. Observations were limited to the western portion of the building, where windows were present.



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6.4.2 Fluorescent Lights

Fluorescent light ballasts manufactured prior to 1979 may contain small quantities of PCBs. However, even if the ballasts do contain PCBs, small capacitors (i.e., ballasts) can be disposed of as municipal solid waste (40 CFR Part 761.60(b)(ii)) as long as they are not leaking. During the current study, fluorescent light ballasts within the structure were not accessed to determine their PCB status.

7.0 INTERVIEWS

Interviews were conducted with various individuals to determine historical uses of the property and to determine environmental concerns associated with the property.

7.1 Interview with Owner

Refer to Section 5.4.1 for information provided by the property owner.

7.2 Interview with Site Manager

Refer to Section 7.1.

7.3 Interviews with Occupants

There are currently no occupants at the property.

7.4 Interviews with Local Government Officials

Information obtained from local government offices is described in appropriate sections throughout this report.



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8.0 FINDINGS AND OPINIONS

The property has been used as a filling station since sometime in the 1920s (pictured on the 1927 Sanborn Map and listed in the 1929 city directory). There is no information available as to the waste storage and handling practices of the filling station owner and operators. The Sanborn Map depicts two gasoline storage tanks. It is unknown if the tanks are still present at the property. It is also unknown if vehicle maintenance was performed on the property. The lack of information available regarding the operations, and waste handling and storage is considered a REC.

Review of the EDR Report and MDEQ file documentation identified three nearby sites where USTS were formerly located and the site assessment data did not include groundwater assessments including establishing a groundwater flow direction. Based on the lack of available data, these sites are considered RECs.

No additional environmental concerns were identified on the property during the Phase I ESA study.

No Historical RECs (HRECs) were identified during the current study.

Despite review of the readily available record sources that were determined to be useful or meaningful by NTH's Environmental Professional (EP), the following data failure/data gaps were encountered in researching the past uses of the property:

• No information is available prior to 1911, and between the years of 1919 and 1926, 1930 and 1949, and 1951 and 1956.

Because there are time periods greater than five years for which no information is available, this is considered a data failure. These data gaps are considered significant because the evidence suggests that the property may have been used for commercial uses that may have utilized or handled hazardous substances.

Additional environmental investigation in the form of a Phase II ESA is recommended to evaluate the above RECs at the property.



9.0 CONCLUSIONS

NTH has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice 1527-05 of the 102 Lansing Street Property in Charlotte, Michigan. Any exceptions to, or deletions from, this practice are described in appropriate sections throughout this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the property, except for the following:

- Former use of the property as a filling station.
- Three nearby sites where USTS were formerly located and the site assessment data did not include groundwater assessments including establishing a groundwater flow direction.

In conclusion, additional environmental investigation in the form of a Phase II ESA is recommended to evaluate the above RECs at the property.

10.0 DEVIATIONS

No deviations, deletions or additions from the current ASTM practice, except those noted in Section 9.0, were made during the performance of this study.

11.0 ADDITIONAL SERVICES

No non-ASTM scope items were requested by the CBRA.



12.0 REFERENCES

- 1) American Society for Testing and Materials (ASTM) Designated: E 1527-05 Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process.
- 2) Environmental Data Resources, Inc. (EDR):
 - EDR Radius Map with GeoCheck;
 - EDR City Directories;
 - EDR Historical Topographic Map Report;
 - The EDR Sanborn Map Report; and
 - The EDR Aerial Photography Print Services
- 3) City of Charlotte Assessor's website
- 4) City of Charlotte Building Department
- 5) City of Charlotte Fire Department
- 6) Barry-Eaton County Health Department
- 7) Michigan Department of Environmental Quality



13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

The field investigation for the Phase I ESA was performed by Ms. Sherry Kirkbride of NTH Consultants, Ltd. The Phase I ESA report was authored by Ms. Kirkbride and Mr. Trent and was reviewed by Mr. Brian Smits.

Mr. Trent and Mr. Smits qualify as "Environmental Professionals (EPs)" and their resumes are included in Appendix D.

Environmental Professional's Declaration

We declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a *property*. We have developed and performed the all appropriate inquiries in general accordance with the standards and practices set forth in ASTM Practice E1527-05, which is consistent and compliant with 40 CFR Part 312.

Brian S. Trent, P.E.	Brian S. Smits, P.E.
Project Engineer	Senior Vice President

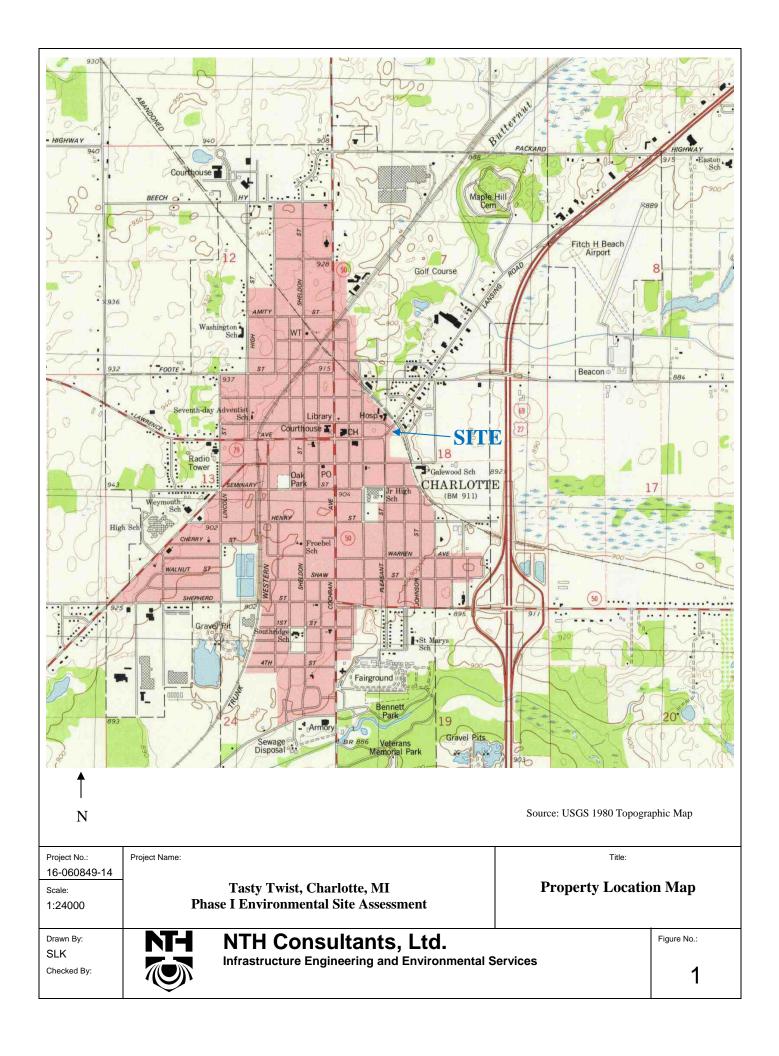


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APPENDIX A

FIGURES AND LEGAL DESCRIPTION





Source: City of Charlotte

Project Name: Title: Project No.: 16-060849-10 Site Layout Plan **Tasty Twist** Scale: 102 Lansing, Charlotte, MI Unknown Phase I Environmental Site Assessment NTH Consultants, Ltd.
Infrastructure Engineering and Environmental Services Drawn By: Figure NO: SLK Checked By: 2 BST

General Property Information

Parcel: 200-080-500-011-00

[Back to Non-Printer Friendly Version] [Send To Printer]

Property Address

[collapse]

102 LANSING RD CHARLOTTE, MI 48813

Owner Information

[collapse]

BINKOWSKI, CHESTER & FAYETTA

Unit:

200

2376 PRAY ROAD CHARLOTTE, MI 48813

Taxpayer Information

[collapse]

SEE OWNER INFORMATION

General Information for Tax Year 2009

[collapse]

Property Class:

201

Assessed Value:

\$59,881

School District:

23030 - Charlotte

Taxable Value:

\$57,652

State Equalized Value:

\$59,881

Map # **Date of Last Name Chg:**

04/05/2002

Date Filed:

OF UNITS

Principal Residence Exemption

(2008 May 1):

0.0000 %

Principal Residence Exemption

0.0000 %

(2008 Final): **Principal Residence Exemption**

(2009 May 1):

0.0000 %

Previous Year Info	MBOR Assessed	Final S.E.V.	Final Taxable
2008	\$60,445	\$60,445	\$55,223
2007	\$53 ,982	\$53,982	\$53 ,982

Land Information

[collapse]

Acreage: **Zoning Code:** 0.43

Frontage: Depth:

0.00 Ft.

Land Value:

\$84,289 \$0

Mortgage Code:

0.00 Ft.

Land Improvements: Renaissance Zone:

NO

09

ECF Neighborhood Code:

Lot Dimensions/Comments:

Legal Information for 200-080-500-011-00

[collapse]

LOTS1 & 2 EXCEPT COM SW CORNER LOT 2, NE ON E LINE LANSING ST 19 FT, SE AT R/A 23.33 FT TO S LINE LOT 2, W 30.15 FT TO BEG. SUNRISE ADDITION, CITY OF CHARLOTTE 1982

Sales Information

3 sale rec	3 sale record(s) found.							
Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms Of Sale	Liber/Page		
03/18/2002	\$0.00	WD	EWING, MARK & KAREN	BINKOWSKI, CHESTER & FAYETTA	ARMS-LENGTH	1514/1232		
03/12/2001	\$160,000.00	LC	LENDER, RECHARD R & PAMELA S	EWING, MARK & KAREN	SELLER FINANCED	1397/432		
02/29/1996	\$145,000.00	LC	MISHLER, LARRY K & SANDRA E	LENDER, RECHARD R & PAMELA S	SELLER FINANCED	1085/510		

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Building Information

Parcel: 200-080-500-011-00

[Back to Non-Printer Friendly Version] [Send To Printer]

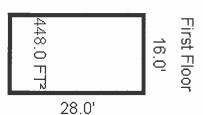
Description ↑ Commercial/Industrial Building 1 - Restaurant, Snack Bars		Floor Area 448 Sq. Ft.	Yr Built E	Est. TCV \$35,473
			0	
General Information				
Floor Area: Occupancy:	448 Sq. Ft. Restaurant, Snack Bars	Estimated TCV: Class:	\$35,473 C	
Stories Above Ground: Basement Wall Height:	1 N/A	Average Story Height:	10	
Year Built:	0	Year Remodeled:	0	
Percent Complete:	100%	Heat:	Package Heati & Cooling	ng
Physical Percent Good:	63%	Functional Percent Good:	100%	
Economic Percent Good:	100%	Effective Age:	15 yrs.	

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Image/Sketch for Parcel: 200-080-500-011-

00 [Back to Non-Printer Friendly Version] [Send To Printer] Caption: C001

Sketch by Apex IVM



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APPENDIX B

SITE PHOTOGRAPHS



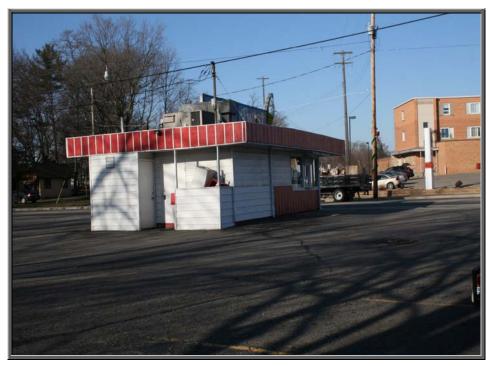


PHOTOGRAPH NO. 1 LOOKING NORTH AT SUBJECT PROPERTY



PHOTOGRAPH NO. 2 LOOKING WEST ACROSS LANSING ROAD AT FRONT OF SUBJECT BUILDING





PHOTOGRAPH NO. 3 LOOKING WEST AT THE REAR AND NORTH SIDES OF THE SUBJECT BUILDING

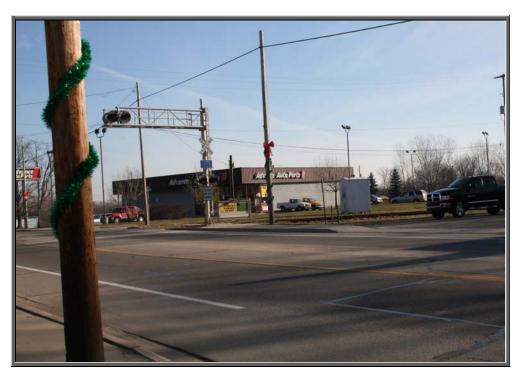


PHOTOGRAPH NO. 4 LOOKING WEST AT PICNIC AREA ON EASTERN PORTION OF SUBJECT PROPERTY





PHOTOGRAPH NO. 5 ADJOINING RESIDENTIAL PROPERTY TO THE SOUTH



PHOTOGRAPH NO. 6 ADJACENT PROPERTY TO THE NORTH ACROSS RAILROAD TRACKS AND GALE STREET





PHOTOGRAPH NO. 7 ADJOINING PROPERTIES TO THE EAST



PHOTOGRAPH NO. 8 ADJACENT PROPERTIES TO THE WEST ACROSS LANSING STREET





PHOTOGRAPH NO. 9 INTERIOR OF TASTY TWIST BUILDING



PHOTOGRAPH NO. 10 INTERIOR OF TASTY TWIST BUILDING



APPENDIX C

ENVIRONMENTAL DATABASE REPORT

Tasty Twist 102 Lansing Street Charlotte, MI 48813

Inquiry Number: 2648184.2s

November 30, 2009

The EDR Radius Map™ Report with GeoCheck®

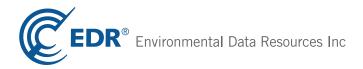


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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

102 LANSING STREET CHARLOTTE, MI 48813

COORDINATES

Latitude (North): 42.564500 - 42° 33' 52.2" Longitude (West): 84.830800 - 84° 49' 50.9"

Universal Tranverse Mercator: Zone 16 UTM X (Meters): 678060.1 UTM Y (Meters): 4714521.5

Elevation: 912 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 42084-E7 CHARLOTTE, MI

Most Recent Revision: 1980

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2006 Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list	
NPL	National Priority List

Proposed NPL..... Proposed National Priority List Sites NPL LIENS..... Federal Superfund Liens Federal Delisted NPL site list Delisted NPL..... National Priority List Deletions Federal CERCLIS list Federal CERCLIS NFRAP site List CERC-NFRAP..... CERCLIS No Further Remedial Action Planned Federal RCRA non-CORRACTS TSD facilities list RCRA-TSDF...... RCRA - Transporters, Storage and Disposal Federal RCRA generators list RCRA-LQG...... RCRA - Large Quantity Generators RCRA-SQG..... RCRA - Small Quantity Generators Federal institutional controls / engineering controls registries US ENG CONTROLS..... Engineering Controls Sites List US INST CONTROL..... Sites with Institutional Controls Federal ERNS list ERNS..... Emergency Response Notification System State- and tribal - equivalent CERCLIS SHWS_____Contaminated Sites State and tribal landfill and/or solid waste disposal site lists SWF/LF..... Solid Waste Facilities Database State and tribal leaking storage tank lists INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists INDIAN UST...... Underground Storage Tanks on Indian Land State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

BROWNFIELDS..... Brownfields and UST Site Database

State and tribal Brownfields sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

HIST LF..... Inactive Solid Waste Facilities

INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

DEL SHWS______ Delisted List of Contaminated Sites CDL_____ Clandestine Drug Lab Listing

US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

LUCIS.....Land Use Control Information System

LIENS..... Lien List

Records of Emergency Release Reports

HMIRS_____ Hazardous Materials Information Reporting System

SPILLS...... Pollution Emergency Alerting System

Other Ascertainable Records

CONSENT...... Superfund (CERCLA) Consent Decrees

TRIS...... Toxic Chemical Release Inventory System

TSCA..... Toxic Substances Control Act

FTTS______FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS...... Integrated Compliance Information System

INDIAN RESERV..... Indian Reservations

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

PCB TRANSFORMER...... PCB Transformer Registration Database

COAL ASH..... Coal Ash Disposal Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 09/15/2009 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page	
JOHNSON IRON INDUSTRIES	615 W SHEPARD	SW 1/2 - 1 (0.951 mi.)	23	41	

Federal RCRA generators list

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 11/12/2008 has revealed that there are 2 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page	
ADVANCE AUTO PARTS	106 LANSING RD	NNE 0 - 1/8 (0.044 mi.)	A1	7	
CONSUMERS ENERGY CO	321 RAILROAD	N 0 - 1/8 (0.115 mi.)	5	14	

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's Leaking Underground Storage Tank (LUST) Database.

A review of the LUST list, as provided by EDR, and dated 09/01/2009 has revealed that there are 10 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address Direction / Distance		Address Direction / Distance Map		Map ID	Page
HAYES GREEN BEACH HOSPITAL Facility Status: Closed	321 E HARRIS ST	WNW 0 - 1/8 (0.113 mi.)	4	12		
JIM & L INC Facility Status: Open	240 N COCHRAN AVE WNW 1/4 - 1/2 (0.273 mi.		11	20		
EATON CO SHERIFF DEPARTMENT Facility Status: Closed	117 W HARRIS ST	W 1/4 - 1/2 (0.275 mi.)	12	23		
AGRI SALES, INC Facility Status: Closed	421 N COCHRAN AVE NW 1/4 - 1/2 (0.394 mi.)		16	29		
Lower Elevation	Address	Direction / Distance	Map ID	Page		
FORMER BAY PETROLEUM STATION Facility Status: Closed Facility Status: Closed	109 LANSING ST	NNE 0 - 1/8 (0.046 mi.)	A2	9		
DARWICHE LLC Facility Status: Open	221 E LAWRENCE	WSW 1/8 - 1/4 (0.187 mi.)	B9	18		
KENS 76 SERVICE Facility Status: Open	301 S COCHRAN AVE	SW 1/4 - 1/2 (0.368 mi.)	15	27		
CRANDELL BROS TRUCKING CO INC Facility Status: Open	800 ISLAND HWY	ENE 1/4 - 1/2 (0.434 mi.)	18	30		
J.R. FUESLEIN, INC Facility Status: Open	420 LANSING ST	NE 1/4 - 1/2 (0.447 mi.)	C20	37		
UNITED UNIT # 6253 Facility Status: Closed	402 W LAWRENCE AVE	W 1/4 - 1/2 (0.459 mi.)	21	37		

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Michigan UST database.

A review of the UST list, as provided by EDR, and dated 09/01/2009 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
HAYES GREEN BEACH HOSPITAL	321 E HARRIS ST	WNW 0 - 1/8 (0.113 mi.)	4	12	
Lower Elevation	Address	Direction / Distance	Map ID	Page	
FORMER BAY PETROLEUM STATION	109 LANSING ST	NNE 0 - 1/8 (0.046 mi.)	A2	9	

Lower Elevation	Address	Direction / Distance		Page
CHARLOTTE/RR GAS REGULATOR STA	407 ROBINSON	N 1/8 - 1/4 (0.147 mi.)	6	17

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Natural Resources' Michigan AST database.

A review of the AST list, as provided by EDR, and dated 09/15/2009 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page	
FORMER BAY PETROLEUM STATION	109 LANSING ST	NNE 0 - 1/8 (0.046 mi.)	A2	9	

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properites addressed by Cooperative Agreement Recipients and Brownfields properties addressed by Targeted Brownfields Assessments

A review of the US BROWNFIELDS list, as provided by EDR, and dated 07/01/2009 has revealed that there are 4 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
406 N. SHELDON	406 N. SHELDON STREET	WNW 1/4 - 1/2 (0.472 mi.)	22	38
Lower Elevation	Address	Direction / Distance	Map ID	Page
138 S. WASHINGTON	138 S. WASHINGTON	WSW 1/8 - 1/4 (0.210 mi.)	10	19
224 W. LAWRENCE GELDHOF TIRE	224 W. LAWRENCE 420 LANSING ROAD	W 1/4 - 1/2 (0.347 mi.) NE 1/4 - 1/2 (0.447 mi.)	14 C19	24 34

Other Ascertainable Records

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 09/14/2009 has revealed that there are 4 BEA sites within approximately 0.5 miles of the target property.

Lower Elevation	Lower Elevation Address D		Map ID	Page	
109 LANSING STREET	109 LANSING STREET	NNE 0 - 1/8 (0.046 mi.)	A3	12	
LN GAS & MINI MART	221 EAST LAWRENCE STREE	WSW 1/8 - 1/4 (0.187 mi.)	B8	18	
114 EAST LOVETT STREET	114 EAST LOVETT STREET	WSW 1/4 - 1/2 (0.291 mi.)	13	24	
326 SOUTH COCHRAN STREET	326 SOUTH COCHRAN STREE	ESW 1/4 - 1/2 (0.408 mi.)	17	30	

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there is 1 Manufactured Gas Plants site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHARLOTTE GAS CO	321 AND 401 RAILROAD ST	NNW 1/8 - 1/4 (0.152 mi.)	7	17

Due to poor or inadequate address information, the following sites were not mapped:

Site Name Database(s)

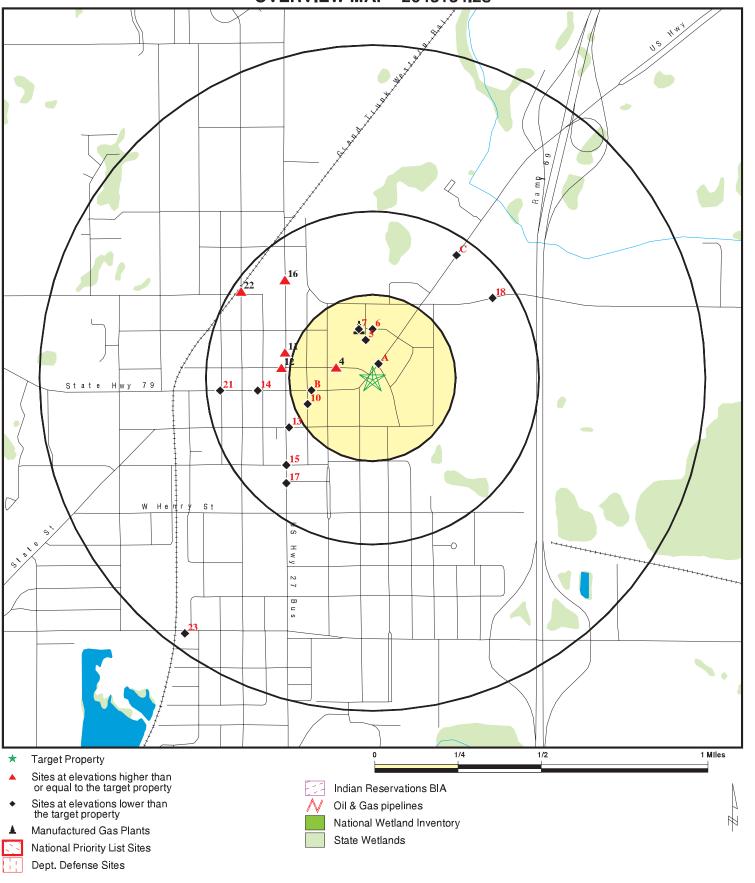
CHARLOTTE MUNICIPAL AIRPORT
LOVETT STREET GROUNDWATER CONTAMIN
CONSUMERS ENERGY
AE HOOVER PROPERTY
446 STINE RD
ISLAND HWY
CHARLOTTE SANITARY LANDFILL
CHARLOTTE DISPOSAL LANDFILL
I 69 UNDERISLAND HIGHWAY

CHARLOTTE DISPOSAL LANDFILL I 69 UNDERISLAND HIGHWAY POINT HWY 504 LANSING ROAD BEA, SHWS BROWNFIELDS, SHWS CERC-NFRAP, SHWS CERC-NFRAP HIST LF HIST LF RCRA-NonGen, FINDS RCRA-NonGen, FINDS BEA

SHWS

SHWS

OVERVIEW MAP - 2648184.2s

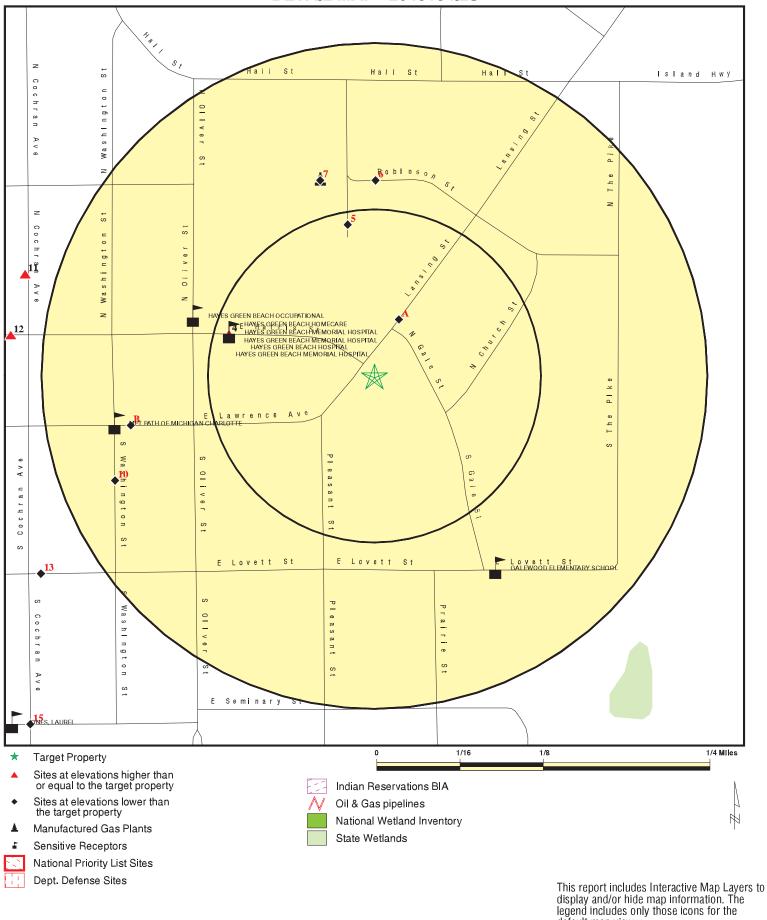


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Tasty Twist ADDRESS: 102 Lansing Street CLIENT: NTH Consultants CONTACT: Sherry Kirkbride NTH Consultants Ltd. Charlotte MI 48813 INQUIRY#: 2648184.2s LAT/LONG: 42.5645 / 84.8308

DATE: November 30, 2009 4:06 pm

DETAIL MAP - 2648184.2s



SITE NAME: Tasty Twist

ADDRESS: 102 Lansing Street
Charlotte MI 48813
LAT/LONG: 42.5645 / 84.8308

CLIENT: NTH Consultants Ltd.
CONTACT: Sherry Kirkbride
INQUIRY #: 2648184.2s
DATE: November 30, 2009 4:06 pm

default map view.

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONMENT	AL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS		1.000 1.000 TP	0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL site	e list							
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS		0.500	0	0	0	NR	NR	0
Federal CERCLIS NFRAI	P site List							
CERC-NFRAP		0.500	0	0	0	NR	NR	0
Federal RCRA CORRACT	TS facilities li	st						
CORRACTS		1.000	0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
Federal RCRA generator	s list							
RCRA-LQG RCRA-SQG RCRA-CESQG		0.250 0.250 0.250	0 0 2	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 2
Federal institutional con engineering controls reg								
US ENG CONTROLS US INST CONTROL		0.500 0.500	0 0	0 0	0 0	NR NR	NR NR	0 0
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equiva	lent CERCLIS	6						
SHWS		1.000	0	0	0	0	NR	0
State and tribal landfill a solid waste disposal site								
SWF/LF		0.500	0	0	0	NR	NR	0
State and tribal leaking s	storage tank l	ists						
LUST INDIAN LUST		0.500 0.500	2	1 0	7 0	NR NR	NR NR	10 0
State and tribal registere	ed storage tar	ık lists						
UST AST		0.250 0.250	2 1	1 0	NR NR	NR NR	NR NR	3 1

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted		
INDIAN UST		0.250	0	0	NR	NR	NR	0		
State and tribal voluntary	/ cleanup site	es								
INDIAN VCP		0.500	0	0	0	NR	NR	0		
State and tribal Brownfie	lds sites									
BROWNFIELDS		0.500	0	0	0	NR	NR	0		
ADDITIONAL ENVIRONMENTAL RECORDS										
Local Brownfield lists										
US BROWNFIELDS		0.500	0	1	3	NR	NR	4		
Local Lists of Landfill / S Waste Disposal Sites	olid									
ODI DEBRIS REGION 9		0.500 0.500	0 0	0 0	0 0	NR NR	NR NR	0 0		
HIST LF		0.500	0	0	0	NR	NR	0		
INDIAN ODI		0.500	0	0	0	NR	NR	0		
Local Lists of Hazardous Contaminated Sites	waste /									
US CDL DEL SHWS		TP 1.000	NR 0	NR 0	NR 0	NR 0	NR NR	0 0		
CDL		TP	NR	NR	NR	NR	NR	0		
US HIST CDL		TP	NR	NR	NR	NR	NR	0		
Local Land Records			NB		N.D.	ND	NE	•		
LIENS 2 LUCIS		TP 0.500	NR 0	NR 0	NR 0	NR NR	NR NR	0 0		
LIENS		TP	NR	NR	NR	NR	NR	0		
Records of Emergency Release Reports										
HMIRS SPILLS		TP TP	NR NR	NR NR	NR NR	NR NR	NR NR	0 0		
Other Ascertainable Rec	ords									
RCRA-NonGen DOT OPS DOD FUDS CONSENT ROD UMTRA MINES TRIS TSCA FTTS HIST FTTS SSTS		0.250 TP 1.000 1.000 1.000 0.500 0.250 TP TP TP TP TP	0 NR 0 0 0 0 0 NR NR NR NR	0 NR 0 0 0 0 0 NR NR NR NR	NR NR 0 0 0 NR NR NR NR NR NR	NR NR 0 0 0 NR NR NR NR NR NR NR	NR N	0 0 0 0 0 0 0 0 0		

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
UIC		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
BEA		0.500	1	1	2	NR	NR	4
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH		0.500	0	0	0	NR	NR	0
EDR PROPRIETARY RECOR	<u>IDS</u>							
EDR Proprietary Records	3							
Manufactured Gas Plants		1.000	0	1	0	0	NR	1

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Direction Distance

Elevation Site Database(s) EPA ID Number

A1 ADVANCE AUTO PARTS RCRA-CESQG 1001088596
NNE 106 LANSING RD FINDS MIR000012823

< 1/8 CHARLOTTE, MI 48813 0.044 mi.

231 ft. Site 1 of 3 in cluster A

Relative: RCRA-CESQG:

Lower Date form received by agency: 10/10/2005

Facility name: ADVANCE AUTO PARTS

Actual: Facility address: 908 ft.

106 LANSING RD CHARLOTTE, MI 48813

EPA ID: MIR000012823
Contact: HEATH DICKINSON
Contact address: 106 LANSING RD

CHARLOTTE, MI 48813

Contact country: Not reported
Contact telephone: (517) 541-2322
Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: ADVANCE STORES COMPANY, INCORPORATED

Owner/operator address: Not reported Not reported Owner/operator country: Not reported Owner/operator telephone: Not reported

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/29/2000
Owner/Op end date: Not reported

Owner/operator name: ADVANCE STORES COMPANY, INCORPORATED

Owner/operator address: Not reported Not reported

Owner/operator country:

Owner/operator telephone:

Legal status:

Owner/Operator Type:

Owner/Operator Type:

Owner/Operator Type:

Owner/Operator Type:

Owner/Operator Type:

Owner/Operator Type:

Owner/Op start date: 06/29/2000
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Direction Distance

Elevation Site Database(s) EPA ID Number

ADVANCE AUTO PARTS (Continued)

1001088596

EDR ID Number

Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY

Accumulated waste on-site: No Generated waste on-site: No

Waste type: MERCURY THERMOMETERS

Accumulated waste on-site: No Generated waste on-site: No

Waste type: MERCURY SWITCHES

Accumulated waste on-site: No Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats

Accumulated waste on-site: No Generated waste on-site: No

Historical Generators:

Date form received by agency: 01/01/1997

Facility name: ADVANCE AUTO PARTS

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/22/1996

Facility name: ADVANCE AUTO PARTS

Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ADVANCE AUTO PARTS (Continued)

1001088596

U003101748

N/A

LUST

UST

AST

FINDS:

Registry ID: 110003694422

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

FORMER BAY PETROLEUM STATION **A2**

NNE **109 LANSING ST** < 1/8 CHARLOTTE, MI 48813

0.046 mi.

244 ft. Site 2 of 3 in cluster A

LUST: Relative:

Facility ID: 00000105 Lower

STATE OF MICHIGAN Source:

Actual: Owner Name: James H Smit

908 ft. Owner Address: 6201 Whitehills Lakes Dr Owner City, St, Zip: East Lansing, MI 48823

Owner Contact: Not reported Owner Phone: 517-485-2285

Country: USA

Lansing District Office District: Site Name: Former Bay Petroleum Station

Latitude: 42.5652590000 Longitude: -84.8307950000 10-05-2004 Date of Collection:

Method of Collection: Address Matching-House Number

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Leak Number: C-0273-03 Jun 24 2003 Release Date: Used Oil Substance Released: Release Status: Closed Release Closed Date: Sep 12 2003

Leak Number: C-0682-02 Release Date: Dec 3 2002 Substance Released: Gasoline Release Status: Closed Release Closed Date: Mar 13 2003

UST:

Facility ID: 00000105 Facility Type: **CLOSED** Latitude: 42.5652590000 Longitude: -84.8307950000 Owner Name: James H Smit

Direction Distance

Elevation Site Database(s) EPA ID Number

FORMER BAY PETROLEUM STATION (Continued)

U003101748

EDR ID Number

Owner Address: 6201 Whitehills Lakes Dr Owner City,St,Zip: East Lansing, MI 48823

Owner Country: USA Owner Contact: Not reported Owner Phone: 517-485-2285 James H Smit Contact: 517-485-2285 Contact Phone: Date of Collection: 10-05-2004 Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Tank ID: 2

Tank Status: Removed from Ground

Capacity: 10000
Install Date: Feb 27 1966
Product: Gasoline
Remove Date: Jun 1 1989
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 3

Tank Status: Removed from Ground

Capacity: 12000
Install Date: Jun 1 1989
Product: Gasoline
Remove Date: Dec 2 2002

Tank Release Detection: Groundwater Monitoring, Manual Tank Gauging, Tank Tightness Testing

Pipe Realease Detection: GroundWater Monitoring Piping Material: Cathodically Protected

Piping Type: Not reported Constr Material: STI-P3 Impressed Device: No

Tank ID: 4

Tank Status: Removed from Ground

Capacity: 8000
Install Date: Jun 1 1989
Product: Gasoline
Remove Date: Dec 2 2002

Tank Release Detection: Groundwater Monitoring, Manual Tank Gauging, Tank Tightness Testing,

SUCTION SYSTEM

Pipe Realease Detection: Not reported

Piping Material: Cathodically Protected

Piping Type: Not reported Constr Material: STI-P3 Impressed Device: No

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FORMER BAY PETROLEUM STATION (Continued)

U003101748

Tank ID:

Removed from Ground Tank Status:

Capacity: 2000 Install Date: Not reported Product: Used Oil Jun 12 2003 Remove Date: Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Bare Steel

Piping Type: Suction: No Valve At Tank Constr Material: Asphalt Coated or Bare Steel

Impressed Device:

Tank ID:

Tank Status: Removed from Ground

Capacity: 4000 Install Date: Feb 27 1966 Product: Gasoline Remove Date: Jun 1 1989 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Unknown Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: Nο

Tank ID:

Tank Status: Removed from Ground

1000 Capacity: Install Date: Jun 1 1989 Product: Diesel Remove Date: Dec 2 2002 Tank Release Detection: Not reported

Pipe Realease Detection: GroundWater Monitoring Piping Material: Cathodically Protected Piping Type: Suction: No Valve At Tank

Cathodically Protected Steel, STI-PM3 Constr Material:

Impressed Device: No

Tank ID:

Removed from Ground Tank Status:

Capacity: 6000 Install Date: Jun 1 1989 Product: Gasoline Remove Date: Dec 2 2002

Tank Release Detection: Groundwater Monitoring, Manual Tank Gauging, Tank Tightness Testing

Pipe Realease Detection: Not reported

Cathodically Protected Piping Material:

Piping Type: Not reported STI-P3 Constr Material: Impressed Device: No

AST:

CLOSED Type:

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FORMER BAY PETROLEUM STATION (Continued)

U003101748

S105966356

N/A

BEA

LUST

UST

Owner Name: Amerigas Propane 1005 JP Sullivan Dr Owner Address: Owner City,St,Zip: Eaton Rapids, MI 48827

Owner County: USA Owner Contact: Mike Stevens Owner Telephone: (517) 663-2657 Facility ID: 92023217

District: Lansing District Office Contact: Mike Stevens Facility Phone: (517) 485-2285

Tank ID:

Tank Status: Removed from Premises

Capacity: 1000 Install Date: Dec 26 1991 Close Date: Not reported Content: Not reported 42.5650930000 Latitude: Longitude: -84.8303780000 Date of Collection: 26-07-2005 Accuracy: 100

Accuracy Value Unit: **FEET** Horizontal Datum: NAD83

STATE OF MICHIGAN Source:

Point Line Area: **POINT**

Description of Category: Plant Entrance (Freight) Method of Collection: GPS Code Meas. Standard P

109 LANSING STREET Α3 NNE **109 LANSING STREET** < 1/8 CHARLOTTE, MI 48813

0.046 mi.

244 ft. Site 3 of 3 in cluster A

BEA: Relative:

Secondary Address: Not reported Lower BEA Number: 725

Actual: District: Lansing

908 ft. 5/2/2003 12:59:00 AM Date Received:

> Submitter Name: Hayes-Green-Beach Memorial Hospital

Petition Determination: Affirmed Petition Disclosure:

Category: No Hazardous Substance(s)

Determination 20107A: Affirmed Reviewer: leinbaca

Division Assigned: Storage Tank Division

HAYES GREEN BEACH HOSPITAL

WNW 321 E HARRIS ST < 1/8 CHARLOTTE, MI 48813

0.113 mi. 599 ft.

LUST: Relative:

Facility ID: 00012700 Higher

Source: STATE OF MICHIGAN Actual: Hayes Green Beach Hospital Owner Name:

918 ft.

U001776927

N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

HAYES GREEN BEACH HOSPITAL (Continued)

EDR ID Number

U001776927

Owner Address: 321 E Harris St

Owner City, St, Zip: Charlotte, MI 48813-1629

Owner Contact: Not reported Owner Phone: (517) 543-1050

Country: USA

District: Lansing District Office
Site Name: Hayes Green Beech Hospital

Latitude: 42.5658030000 Longitude: -84.8316200000 Date of Collection: 21-10-2003

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-1226-94
Release Date: Oct 17 1994
Substance Released: Diesel
Release Status: Closed
Release Closed Date: Jun 15 1996

UST:

 Facility ID:
 00012700

 Facility Type:
 ACTIVE

 Latitude:
 42.5658030000

 Longitude:
 -84.8316200000

Owner Name: Hayes Green Beach Hospital

Owner Address: 321 E Harris St

Owner City,St,Zip: Charlotte, MI 48813-1629

Owner Country: USA Owner Contact: Not reported (517) 543-1050 Owner Phone: RANDY OWENS Contact: Contact Phone: (517) 543-1050 21-10-2003 Date of Collection: Accuracy: 10 Accuracy Value Unit: **METERS** Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 3

Tank Status: Removed from Ground

Capacity: 10000
Install Date: Apr 16 1956
Product: Not reported
Remove Date: Aug 5 1994
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

HAYES GREEN BEACH HOSPITAL (Continued)

U001776927

EDR ID Number

Tank ID:

Removed from Ground Tank Status:

Capacity: 300 Install Date: Jan 1 1981 Product: Diesel Remove Date: Oct 3 1994 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID:

Currently In Use Tank Status:

Capacity: 6000 Install Date: Oct 10 1994 Product: Diesel Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging, Inter Monitoring Double Walled Tank, Inter

Monitoring/Second Containment

Pipe Realease Detection: Interstitial Monitoring/Second Containment

Piping Material: Fiberglass reinforced plastic, Secondary Containment

Piping Type: Pressure

Constr Material: Double Walled, Fiberglass Reinforced plastic

Impressed Device: No

Tank ID:

Tank Status: **Removed from Ground**

Capacity: 300 Install Date: Jan 1 1981 Product: Diesel Remove Date: Oct 3 1994 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

CONSUMERS ENERGY CO

North 321 RAILROAD < 1/8

CHARLOTTE, MI 48813

0.115 mi. 609 ft.

RCRA-CESQG: Relative:

Date form received by agency: 12/31/2002 Lower

Facility name: CONSUMERS ENERGY CO

Actual: Facility address: 321 RAILROAD

911 ft.

CHARLOTTE, MI 48813

EPA ID: MID985650332 Mailing address: 1945 W PARNALL RD

JACKSON, MI 49201

PATRICK ZOMBO Contact: Contact address: 321 RAILROAD

1004723865

MID985650332

RCRA-CESQG

FINDS

Direction Distance Elevation

evation Site Database(s) EPA ID Number

CONSUMERS ENERGY CO (Continued)

1004723865

EDR ID Number

CHARLOTTE, MI 48813

Contact country: Not reported
Contact telephone: (517) 788-0647
Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: CONSUMERS ENERGY

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/01/1975

Owner/Op end date: 01/01/1975

Not reported

Owner/operator name: CONSUMERS ENERGY Owner/operator address: Not reported

Owner/operator address:

Owner/operator country:

Owner/operator telephone:
Legal status:

Owner/Operator Type:

Not reported
Not reported
Private
Owner

Owner/Op start date: 01/01/1975 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No

Distance

Elevation Site Database(s) EPA ID Number

CONSUMERS ENERGY CO (Continued)

1004723865

EDR ID Number

Used oil transfer facility: No Used oil transporter: No

Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY

Accumulated waste on-site: No Generated waste on-site: No

Waste type: MERCURY THERMOMETERS

Accumulated waste on-site: No Generated waste on-site: No

Waste type: MERCURY SWITCHES

Accumulated waste on-site: No Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats

Accumulated waste on-site: No Generated waste on-site: No

Historical Generators:

Date form received by agency: 10/01/2002

Facility name: CONSUMERS ENERGY CO

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/27/1992

Facility name: CONSUMERS ENERGY CO

Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003674266

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

Direction Distance

Elevation Site Database(s) EPA ID Number

6 CHARLOTTE/RR GAS REGULATOR STAT UST U001147597
North 407 ROBINSON N/A

North 407 ROBINSON 1/8-1/4 CHARLOTTE, MI 49201

0.147 mi. 775 ft.

Relative: UST:

Lower Facility ID: 00036119

Facility Type: CLOSED

Actual: Latitude: 42.5666400000
909 ft. Longitude: -84.8299970000
Owner Name: Consumers Energ

Owner Name: Consumers Energy Co
Owner Address: 1945 W Parnall Rd P-24-501A

Owner City, St, Zip: Jackson, MI 49201

Owner Country: USA

Owner Contact: Robert Newman
Owner Phone: (517) 788-0350
Contact: TONY M. AURINO
Contact Phone: (517) 373-6100
Date of Collection: 01-11-2001
Accuracy Value Unit: FFFT

Accuracy Value Unit: FEET Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Tank ID:

Tank Status: Removed from Ground

Capacity: 1000
Install Date: Jan 1 1956
Product: Gasoline
Remove Date: Jul 9 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

7 CHARLOTTE GAS CO Manufactured Gas Plants 1008408089 NNW 321 AND 401 RAILROAD STREET N/A

1/8-1/4 CHARLOTTE, MI 48813

0.152 mi. 804 ft.

Relative: Manufactured Gas Plants:

Lower Alternate Name: NEW CHARLOTTE GAS CO; CONSUMERS POWER CO.

Actual: 903 ft.

Direction Distance

Elevation Site Database(s) EPA ID Number

B8 LN GAS & MINI MART BEA S108488086
WSW 221 EAST LAWRENCE STREET N/A

WSW 221 EAST LAWRENCE STREET 1/8-1/4 CHARLOTTE, MI 48390

0.187 mi.

985 ft. Site 1 of 2 in cluster B

Relative: BEA:

Lower Secondary Address: Not reported

BEA Number: 1171
District: Lansing

Actual: District: Lansing 909 ft. Date Received: 5/23/200

9 ft. Date Received: 5/23/2007 12:59:00 AM
Submitter Name: Business Loan Center, LLC

Petition Determination: Affirmed Petition Disclosure: 1

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: leinbaca

Division Assigned: Storage Tank Division

 B9
 DARWICHE LLC
 LUST
 \$105775110

 WSW
 221 E LAWRENCE
 N/A

1/8-1/4 0.187 mi.

985 ft. Site 2 of 2 in cluster B

Relative: LUST: Lower Facility ID: 00012965

CHARLOTTE, MI 99999

Source: STATE OF MICHIGAN

Actual: Owner Name: OWNER ADDRESS UNKNOWN

909 ft. Owner Address: Not Recorded

Owner City,St,Zip: Not Recorded, XX 99999

Owner Contact: Not reported Owner Phone: Not reported

Country: USA

District: Lansing District Office
Site Name: Action Auto #29
Latitude: 42.5642700000
Longitude: -84.8336950000
Date of Collection: 21-10-2003

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-0425-92
Release Date: Mar 18 1992
Substance Released: Gasoline
Release Status: Open
Release Closed Date: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

 10
 138 S. WASHINGTON
 US BROWNFIELDS
 1011860141

 WSW
 138 S. WASHINGTON
 N/A

1/8-1/4 0.210 mi. 1108 ft.

Relative: US BROWNFIELDS:

CHARLOTTE, MI 48813

Lower Recipient name: Charlotte Brownfield Redevelopment Authority

Project name: Charlotte BF Redev Auth, MI (A05)

Actual: Property name: 138 S. Washington 908 ft. Parcel #: 200-000-023-180-0

Parcel #: 200-000-023-180-00; 200-000-023-150-00; 200-000-023-230-00

 Parcel size:
 0.66

 Latitude:
 42.56341

 Longitude:
 -84.8346

 Region:
 5

HCM label: Not reported Map scale: Not reported Point of reference: Not reported

Datum: World Geodetic System of 1984

ICREQ date:
ACRES property ID:
Start date:
Completed date:

Not reported
69301
69301
677/2007
9/1/2007

Accomplishment type: Phase I Environmental Assessment

Accomplishment (acres):

Ownership entity:

Current use:

Current owner:

Not reported

Not reported

Mr. John Schroeder

Future use: Not reported

Past use flag: Yes

Future use flag: Not reported Cleanup required: Unknown Not reported Proprietary controls: Gov. control: Not reported Enforcement permit tools: Not reported Info. devices: Not reported Not reported Video available: Not reported Photo available: Commercial Usage type: Not in state/tribal program: Not reported IC data address: Not reported IC in place date: Not reported IC in place flag: Not reported IC required flag: Not reported NFA issue date: Not reported State and tribal program date: Not reported State and tribal program ID: Not reported Air contaminated: Not reported Air cleaned: Not reported Asbestos found: Not reported Asbestos cleaned: Not reported Not reported Controled substance found: Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported Groundwater affected: Not reported Groundwater cleaned: Not reported Not reported Lead contaminant found:

Not reported

Lead cleaned up:

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

138 S. WASHINGTON (Continued)

1011860141

None found: Not reported Not reported None cleaned up: Not reported No media found: No media cleaned up: Not reported Other found: Not reported Other cleaned up: Not reported Not reported Other metals found: Other metals cleaned: Not reported PAHs found: Not reported PAHs cleaned up: Not reported PCBs found: Not reported PCBs cleaned up: Not reported Petro products found: Not reported Petro products cleaned: Not reported Sediments found: Not reported Sediments cleaned: Not reported Not reported Soil affected: Soil cleaned up: Not reported Surface water affected: Not reported Surface water cleaned: Not reported Not reported Unknown found: Unknwon cleaned: Not reported Not reported Unknown media: Unknown media cleaned: Not reported VOCs found: Not reported VOCs cleaned: Not reported

Property Description: The property is currently unoccuppied, but previously functioned as

various commercial entities including an auto dealership, offices, and

a restaurant.

11 JIM & L INC LUST U000252541 240 N COCHRAN AVE WNW UST N/A

1/4-1/2 0.273 mi. 1441 ft.

LUST: Relative:

Facility ID: 00014042 Higher

CHARLOTTE, MI 48813

STATE OF MICHIGAN Source:

Actual: Owner Name: Jess Mondejar 913 ft.

Owner Address: 2156 Brookmead Way Owner City, St, Zip: Charlotte, MI 48813-9754

Owner Contact: Not reported Owner Phone: (517) 543-1706

Country: USA

District: Lansing District Office

Site Name: Jim & L, Inc. 42.5655290000 Latitude: Longitude: -84.8357960000 Date of Collection: 01-11-2001

Method of Collection: Address Matching-House Number

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Leak Number: C-0594-93

Direction Distance

Elevation Site Database(s) EPA ID Number

JIM & L INC (Continued)

U000252541

EDR ID Number

Release Date: May 18 1993 Substance Released: Gasoline,Other

Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00014042
Facility Type: CLOSED
Latitude: 42.5655290000
Longitude: -84.8357960000
Owner Name: Jess Mondejar
Owner Address: 2156 Brookmead Way
Owner City, St, Zip: Charlotte, MI 48813-9754

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (517) 543-1706
Contact: JIM MORDEJMR

Contact Phone: () Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Tank ID: 3

Tank Status: Removed from Ground

Capacity: 500 Jan 1 1980 Install Date: Product: Diesel Remove Date: May 19 1993 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Suction: Valve at Tank Cathodically Protected Steel Constr Material:

Impressed Device: No

Tank ID: 4

Tank Status: Removed from Ground

Capacity: 500

Install Date: Not reported Product: Used Oil Remove Date: May 19 1993 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Bare Steel

Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 6

Tank Status: Removed from Ground

Capacity: 1000

Direction
Distance

Elevation Site Database(s) EPA ID Number

JIM & L INC (Continued)

U000252541

EDR ID Number

Install Date: Not reported Product: UNK
Remove Date: May 19 1993
Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Bare Steel

Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 5

Tank Status: Removed from Ground

Capacity: 500

Install Date: Not reported Product: UNK
Remove Date: May 19 1993
Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Bare Steel

Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 2

Tank Status: Removed from Ground

Capacity: 4000 Jan 1 1980 Install Date: Product: Gasoline May 19 1993 Remove Date: Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Suction: Valve at Tank Cathodically Protected Steel Constr Material:

Impressed Device: No

Tank ID:

Impressed Device:

Tank Status: Removed from Ground

Capacity: 10000 Install Date: Jan 1 1980 Gasoline Product: Remove Date: May 19 1993 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Galvanized Steel Piping Type: Suction: Valve at Tank Constr Material: Cathodically Protected Steel

No

TC2648184.2s Page 22

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

12 EATON CO SHERIFF DEPARTMENT LUST U000714500 West 117 W HARRIS ST UST N/A

West 117 W HARRIS ST 1/4-1/2 CHARLOTTE, MI 48813

0.275 mi. 1450 ft.

Relative: LUST:

Equal Facility ID: 00007319

Source: STATE OF MICHIGAN

Actual: Owner Name: Eaton County Sheriff Dept

912 ft. Owner Address: 1045 Indendence Blvd

Owner City,St,Zip: Charlotte, MI 48813

Owner Contact: Not reported
Owner Phone: (517) 485-6444

Country: USA

District: Lansing District Office
Site Name: Eaton County Jail
Latitude: 42.5647760000
Longitude: -84.8363110000
Date of Collection: 01-11-2001

Method of Collection: Address Matching-House Number

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-0164-85
Release Date: Apr 27 1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Mar 28 1994

UST:

 Facility ID:
 00007319

 Facility Type:
 CLOSED

 Latitude:
 42.5647760000

 Longitude:
 -84.8363110000

Owner Name: Eaton County Sheriff Dept
Owner Address: 1045 Indendence Blvd
Owner City,St,Zip: Charlotte, MI 48813

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (517) 485-6444
Contact: MATTHEW WHITE
Contact Phone: (517) 485-6444
Date of Collection: 01-11-2001

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Tank ID: JAIL

Tank Status: Removed from Ground

Capacity: 4000
Install Date: Mar 13 1961
Product: Gasoline

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

EATON CO SHERIFF DEPARTMENT (Continued)

U000714500

Remove Date: Jul 21 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

13 114 EAST LOVETT STREET BEA \$108488006 WSW 114 EAST LOVETT STREET N/A

WSW 114 EAST LOVETT STREET 1/4-1/2 CHARLOTTE, MI 48813

0.291 mi. 1536 ft.

Relative: BEA:

Lower Secondary Address: Not reported

BEA Number: 1167

Actual: District: Lansing 908 ft. Date Received: 5/1/2007

CHARLOTTE, MI 48813

Date Received: 5/1/2007 12:59:00 AM
Submitter Name: Charlotte RE, LLC
Petition Determination: No Request

Petition Disclosure: 0

Category: No Hazardous Substance(s)

Determination 20107A: No Request Reviewer: sakowskk

Division Assigned: Environmental Response Division

1/4-1/2 0.347 mi. 1830 ft.

Relative: US BROWNFIELDS:

Lower Recipient name: Charlotte Brownfield Redevelopment Authority

Project name: Charlotte BF Redev Auth, MI (A05)

 Actual:
 Property name:
 224 W. Lawrence

 911 ft.
 Parcel #:
 200-000-017-050-00

 Parcel size:
 0.08

 Latitude:
 42.564

 Longitude:
 -84.83759

 Region:
 5

HCM label: Not reported Map scale: Not reported Point of reference: Not reported

Datum: World Geodetic System of 1984

ICREQ date: Not reported ACRES property ID: 69321 Start date: 11/30/2007 Completed date: 12/30/2007

Accomplishment type: Phase I Environmental Assessment

Accomplishment (acres): Not reported Ownership entity: Private Current use: Not reported

Current owner: Steven M and Diane M Sowle

Future use: Not reported

Distance Elevation

Site Database(s) EPA ID Number

224 W. LAWRENCE (Continued)

1011860147

EDR ID Number

Past use flag: Yes

Future use flag: Not reported

Cleanup required: No

Proprietary controls: Not reported Gov. control: Not reported Enforcement permit tools: Not reported Info. devices: Not reported

Video available: No
Photo available: Yes
Usage type: Commercial
Not in state/tribal program: Yes

IC data address: Not reported IC in place date: Not reported IC in place flag: Not reported

IC required flag: No

NFA issue date: Not reported State and tribal program date: Not reported State and tribal program ID: Not reported Air contaminated: Not reported Air cleaned: Not reported Not reported Asbestos found: Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported Groundwater affected: Not reported Groundwater cleaned: Not reported Lead contaminant found: Not reported Not reported Lead cleaned up: None found: Not reported None cleaned up: Not reported No media found: Not reported No media cleaned up: Not reported Not reported Other found: Not reported Other cleaned up: Other metals found: Not reported Other metals cleaned: Not reported PAHs found: Not reported PAHs cleaned up: Not reported PCBs found: Not reported Not reported PCBs cleaned up: Petro products found: Not reported Petro products cleaned: Not reported Sediments found: Not reported Sediments cleaned: Not reported Soil affected: Not reported Soil cleaned up: Not reported

Unknown found: Yes
Unknwon cleaned: Yes

Surface water affected:

Surface water cleaned:

Unknown media: Not reported
Unknown media cleaned: Not reported
VOCs found: Not reported
VOCs cleaned: Not reported

Not reported Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

224 W. LAWRENCE (Continued)

1011860147

EDR ID Number

Recipient name: Charlotte Brownfield Redevelopment Authority

Project name: Charlotte BF Redev Auth, MI (A05)

Property name: 224 W. Lawrence Parcel #: 200-000-017-050-00

 Parcel size:
 0.08

 Latitude:
 42.564

 Longitude:
 -84.83759

 Region:
 5

HCM label: Not reported Map scale: Not reported Point of reference: Not reported

Datum: World Geodetic System of 1984

ICREQ date: Not reported ACRES property ID: 69321 Start date: 12/11/2007 Completed date: 1/30/2008

Accomplishment type: Phase II Environmental Assessment

Accomplishment (acres): Not reported Ownership entity: Private Current use: Not reported

Current owner: Steven M and Diane M Sowle

Future use: Not reported

Past use flag: Yes

Future use flag: Not reported

Cleanup required: No

Proprietary controls: Not reported
Gov. control: Not reported
Enforcement permit tools: Not reported
Info. devices: Not reported

Video available: No Photo available: Yes Usage type: Commercial Not in state/tribal program: Yes

IC data address: Not reported IC in place date: Not reported IC in place flag: Not reported

IC required flag: No

NFA issue date: Not reported State and tribal program date: Not reported State and tribal program ID: Not reported Air contaminated: Not reported Not reported Air cleaned: Asbestos found: Not reported Not reported Asbestos cleaned: Not reported Controled substance found: Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported Groundwater affected: Not reported Not reported Groundwater cleaned: Lead contaminant found: Not reported Lead cleaned up: Not reported None found: Not reported None cleaned up: Not reported No media found: Not reported Not reported No media cleaned up: Other found: Not reported

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

224 W. LAWRENCE (Continued)

1011860147

LUST

UST

U000252555

N/A

Other cleaned up: Not reported Not reported Other metals found: Other metals cleaned: Not reported PAHs found: Not reported PAHs cleaned up: Not reported Not reported PCBs found: Not reported PCBs cleaned up: Petro products found: Not reported Petro products cleaned: Not reported Sediments found: Not reported Sediments cleaned: Not reported Not reported Soil affected: Soil cleaned up: Not reported Surface water affected: Not reported Surface water cleaned: Not reported Unknown found: Yes Yes Unknwon cleaned: Unknown media: Not reported Unknown media cleaned: Not reported

VOCs found: Not reported VOCs cleaned: Not reported

The property is currently unoccupied. Its previous uses include a Property Description:

residence, gas station, and a flower shop.

15 **KENS 76 SERVICE** SW **301 S COCHRAN AVE** 1/4-1/2 CHARLOTTE, MI 48813 0.368 mi.

1941 ft.

LUST: Relative:

Facility ID: 00018394 Lower STATE OF MICHIGAN

Source: Actual: John Cusick Owner Name:

906 ft. Owner Address: 4306 W Willow Hwy Owner City, St, Zip: Lansing, MI 48917-2141

Owner Contact: Not reported Owner Phone: (517) 323-3574

Country: USA

District: Lansing District Office Site Name: Kens 76 Service Latitude: 42.5605310000 -84.8357480000 Longitude: Date of Collection: 01-11-2001

Method of Collection: Address Matching-House Number

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Leak Number: C-0022-09 Release Date: Jan 5 2009

Substance Released: Gasoline, Gasoline, Diesel, Used Oil

Release Status: Open Release Closed Date: Not reported

UST:

Direction Distance

Elevation Site Database(s) EPA ID Number

KENS 76 SERVICE (Continued)

U000252555

EDR ID Number

Facility ID: 00018394
Facility Type: CLOSED
Latitude: 42.5605310000
Longitude: -84.8357480000
Owner Name: John Cusick
Owner Address: 4306 W Willow Hw

Owner Address: 4306 W Willow Hwy
Owner City,St,Zip: Lansing, MI 48917-2141

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (517) 323-3574
Contact: JOHN CUSICK
Contact Phone: (517) 323-3574
Date of Collection: 01-11-2001
Accuracy: 100

Accuracy Value Unit: FEET
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: Address Matching-House Number

Tank ID: 2

Tank Status: Removed from Ground

Capacity: 6000
Install Date: May 8 1975
Product: Gasoline
Remove Date: Dec 19 1988
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

Capacity: 500
Install Date: May 8 1975
Product: Diesel
Remove Date: Dec 19 1988
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID:

Tank Status: Removed from Ground

Capacity: 6000
Install Date: May 8 1975
Product: Gasoline
Remove Date: Dec 19 1988
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

KENS 76 SERVICE (Continued)

U000252555

Piping Material: Galvanized Steel Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID:

Tank Status: **Removed from Ground**

Capacity: 500 Install Date: May 8 1975 Used Oil Product: Dec 19 1988 Remove Date: Tank Release Detection: Not reported Pipe Realease Detection: Not reported Galvanized Steel Piping Material: Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

LUST S105213474 16 **AGRI SALES, INC** NW **421 N COCHRAN AVE** N/A

1/4-1/2 0.394 mi. 2083 ft.

LUST: Relative:

Facility ID: 00009989 Equal

CHARLOTTE, MI 48813

STATE OF MICHIGAN Source:

Actual: Owner Name: Agri Sales 912 ft. Owner Address: PO Box 2028

> Owner City, St, Zip: Saginaw, MI 48605-2028

Owner Contact: Not reported Owner Phone: (517) 753-5432

Country: USA District: Lansing District Office Site Name: Agri Sales, Charlotte Latitude: 42.5687940000 -84.8362260000 Longitude:

01-11-2001 Date of Collection:

Address Matching-House Number Method of Collection:

Accuracy: 100 Accuracy Value Unit: **FEET** NAD83 Horizontal Data: Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Leak Number: C-1188-94 Release Date: Oct 10 1994 Diesel, Gasoline Substance Released: Release Status: Closed Release Closed Date: Sep 29 1995

Direction Distance

Elevation Site Database(s) **EPA ID Number**

17 326 SOUTH COCHRAN STREET S108669796 SW 326 SOUTH COCHRAN STREET N/A

1/4-1/2 CHARLOTTE, MI

0.408 mi. 2156 ft.

BEA: Relative:

Lower Secondary Address: Not reported

BEA Number: 1214

Actual: District: Lansing 907 ft.

8/28/2007 12:59:00 AM Date Received: Submitter Name: Family Fare, LLC Petition Determination: No Request

Petition Disclosure:

Category: Different Hazardous Substance(s)

Determination 20107A: No Request Reviewer: sakowskk

Division Assigned: **Environmental Response Division**

CRANDELL BROS TRUCKING CO INC RCRA-CESQG 1000310651 18

ENE 800 ISLAND HWY 1/4-1/2 CHARLOTTE, MI 48813

0.434 mi.

FINDS MID006566467 LUST UST

EDR ID Number

2289 ft.

RCRA-CESQG: Relative:

Date form received by agency: 06/08/2004 Lower

CRANDELL BROS TRUCKING CO INC Facility name:

Actual: Facility address: 800 ISLAND HWY

889 ft.

CHARLOTTE, MI 48813

EPA ID: MID006566467 CHAD CRANDELL Contact: Contact address: 800 ISLAND HWY

CHARLOTTE, MI 48813

Contact country: Not reported Contact telephone: (517) 543-2930 Contact email: Not reported

EPA Region:

Classification: Conditionally Exempt Small Quantity Generator

Handler: generates 100 kg or less of hazardous waste per calendar Description:

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

RANDY CRANDELL Owner/operator name:

Owner/operator address: Not reported

Not reported

Not reported Owner/operator country:

Direction Distance Elevation

Site Database(s) EPA ID Number

CRANDELL BROS TRUCKING CO INC (Continued)

1000310651

EDR ID Number

Owner/operator telephone: Not reported Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/05/1988
Owner/Op end date: Not reported

Owner/operator name: RANDY CRANDELL

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/05/1988
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: Nο Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY

Accumulated waste on-site: No Generated waste on-site: No

Waste type: MERCURY THERMOMETERS

Accumulated waste on-site: No Generated waste on-site: No

Waste type: MERCURY SWITCHES

Accumulated waste on-site: No Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides

MAP FINDINGS Map ID

Direction Distance Elevation

Site Database(s) **EPA ID Number**

CRANDELL BROS TRUCKING CO INC (Continued)

1000310651

EDR ID Number

Accumulated waste on-site: No Generated waste on-site: No

Waste type: **Thermostats**

Accumulated waste on-site: No Generated waste on-site: No

Historical Generators:

Date form received by agency: 04/16/2003

Facility name: CRANDELL BROS TRUCKING CO INC Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/05/1988

CRANDELL BROS TRUCKING CO INC Facility name: Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003585022

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

LUST:

Facility ID: 00005559

STATE OF MICHIGAN Source: Crandell Brothers Trucking Co Owner Name:

Owner Address: 800 Island Hwy

Owner City, St, Zip: Charlotte, MI 48813-9359

Owner Contact: Not reported Owner Phone: (517) 543-2930

Country: USA

District: Lansing District Office Site Name: Crandell Brothers Trucking

Latitude: 42.5670220000 Longitude: -84.8234550000 Date of Collection: 21-10-2003

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Accuracy: 100 Accuracy Value Unit: **FEET** Horizontal Data: NAD83 Point Line Area: **POINT**

Desc Category: Plant Entrance (Freight)

Leak Number: C-2152-92 Dec 7 1992 Release Date: Substance Released: Diesel Release Status: Open Release Closed Date: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

CRANDELL BROS TRUCKING CO INC (Continued)

1000310651

EDR ID Number

UST:

 Facility ID:
 00005559

 Facility Type:
 ACTIVE

 Latitude:
 42.5670220000

 Longitude:
 -84.8234550000

Owner Name: Crandell Brothers Trucking Co

Owner Address: 800 Island Hwy

Owner City, St, Zip: Charlotte, MI 48813-9359

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (517) 543-2930
Contact: RANDY CRANDELL
Contact Phone: (517) 543-2930
Date of Collection: 21-10-2003
Accuracy: 100

Accuracy Value Unit: FEET
Horizontal Datum: NAD83

Source: STATE OF MICHIGAN

Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID:

Tank Status: Removed from Ground

Capacity: 10000
Install Date: May 7 1971
Product: Diesel
Remove Date: May 28 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

Tank ID: 2

Tank Status:Currently In UseCapacity:12000Install Date:Sep 1 1989

Product: Diesel
Remove Date: Not reported

Tank Release Detection: Automatic Tank Gauging, Inventory Control

Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank

Constr Material: Cathodically Protected Steel

Impressed Device: No

Direction Distance

Elevation Site Database(s) EPA ID Number

C19 GELDHOF TIRE US BROWNFIELDS 1011860184
NE 420 LANSING ROAD N/A

1/4-1/2 CHARLOTTE, MI 48813

0.447 mi.

2361 ft. Site 1 of 2 in cluster C

Relative: US BROWNFIELDS:

Lower Recipient name: Charlotte Brownfield Redevelopment Authority

Project name: Charlotte BF Redev Auth, MI (A05)

 Actual:
 Property name:
 Geldhof Tire

 886 ft.
 Parcel #:
 200-007-400-290-00

Parcel size: 1

Latitude: 42.62485 Longitude: -84.73681 Region: 5

HCM label: Not reported Map scale: Not reported Point of reference: Not reported

Datum: World Geodetic System of 1984

ICREQ date: Not reported ACRES property ID: 69361
Start date: 12/27/2007
Completed date: 3/1/2008

Accomplishment type: Phase I Environmental Assessment

Accomplishment (acres): Not reported
Ownership entity: Private
Current use: Not reported

Current owner: Mr. Theodore Geldhof

Future use: Not reported

Past use flag: Yes

Future use flag: Not reported

Cleanup required: No

Proprietary controls: Not reported Gov. control: Not reported Enforcement permit tools: Not reported Info. devices: Not reported Not reported Video available: Not reported Photo available: Commercial Usage type: Not in state/tribal program: Yes

IC data address: Not reported IC in place date: Not reported IC in place flag: Not reported

IC required flag: No

NFA issue date: Not reported State and tribal program date: Not reported Not reported State and tribal program ID: Air contaminated: Not reported Air cleaned: Not reported Asbestos found: Not reported Asbestos cleaned: Not reported Not reported Controled substance found: Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported Groundwater affected: Yes

Groundwater cleaned: Not reported

Lead contaminant found: Yes

Lead cleaned up: Not reported

EDR ID Number

MAP FINDINGS Map ID

Direction Distance Elevation

EDR ID Number Site Database(s) **EPA ID Number**

GELDHOF TIRE (Continued)

1011860184

None found: Not reported Not reported None cleaned up: Not reported No media found: No media cleaned up: Not reported Other found: Not reported Other cleaned up: Not reported Other metals found: Yes

Other metals cleaned: Not reported

PAHs found: Yes

PAHs cleaned up: Not reported PCBs found: Not reported PCBs cleaned up: Not reported Not reported Petro products found: Petro products cleaned: Not reported Sediments found: Not reported Sediments cleaned: Not reported Yes Soil affected:

Soil cleaned up: Not reported Surface water affected: Not reported Not reported Surface water cleaned: Not reported Unknown found: Unknwon cleaned: Not reported Not reported Unknown media: Unknown media cleaned: Not reported VOCs found: Yes VOCs cleaned: Not reported

Recipient name: Charlotte Brownfield Redevelopment Authority

Project name: Charlotte BF Redev Auth, MI (A05)

Property name: Geldhof Tire Parcel #: 200-007-400-290-00

Parcel size:

Latitude: 42.62485 Longitude: -84.73681 Region:

HCM label: Not reported Map scale: Not reported Point of reference: Not reported

World Geodetic System of 1984 Datum:

ICREQ date: Not reported ACRES property ID: 69361 2/8/2008 Start date: Completed date: Not reported

Accomplishment type: Phase II Environmental Assessment

Accomplishment (acres): Not reported Ownership entity: Private Current use: Not reported

Current owner: Mr. Theodore Geldhof

Future use: Not reported Past use flag: Yes

Future use flag: Not reported

Cleanup required: No

Proprietary controls: Not reported Gov. control: Not reported Enforcement permit tools: Not reported Not reported Info. devices: Video available: Not reported

MAP FINDINGS Map ID Direction

Distance Elevation

Site Database(s) **EPA ID Number**

GELDHOF TIRE (Continued)

1011860184

EDR ID Number

Photo available: Not reported Commercial Usage type:

Not in state/tribal program: Yes

IC data address: Not reported IC in place date: Not reported Not reported IC in place flag: IC required flag: No

NFA issue date: Not reported State and tribal program date: Not reported State and tribal program ID: Not reported Air contaminated: Not reported Air cleaned: Not reported

Asbestos found: Not reported Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Not reported Not reported Drinking water affected: Drinking water cleaned: Not reported

Groundwater affected: Yes

Not reported Groundwater cleaned:

Lead contaminant found: Yes

Not reported Lead cleaned up: Not reported None found: None cleaned up: Not reported No media found: Not reported No media cleaned up: Not reported Other found: Not reported Other cleaned up: Not reported

Other metals found: Yes

Other metals cleaned: Not reported

PAHs found: Yes

PAHs cleaned up: Not reported PCBs found: Not reported PCBs cleaned up: Not reported Not reported Petro products found: Not reported Petro products cleaned: Not reported Sediments found: Sediments cleaned: Not reported Soil affected: Yes

Not reported Soil cleaned up: Surface water affected: Not reported Surface water cleaned: Not reported Unknown found: Not reported Not reported Unknwon cleaned: Not reported Unknown media: Not reported Unknown media cleaned: VOCs found: Yes

VOCs cleaned: Not reported

Property Description: The property is currently an automobile tire service center. The

property was previously agricultural land.

Direction Distance

Elevation Site Database(s) EPA ID Number

C20 J.R. FUESLEIN, INC LUST S105213650
NE 420 LANSING ST N/A

1/4-1/2 CHARLOTTE, MI 48813

0.447 mi.

2361 ft. Site 2 of 2 in cluster C

Relative: Lower LUST: Facility ID: 00019379

Source: STATE OF MICHIGAN

Actual: Owner Name: J.R. Fueslein, Inc

886 ft. Owner Address: 420 Lansing St

Owner City, St, Zip: Charlotte, MI 48813-1655

Owner Contact: Not reported
Owner Phone: (517) 543-0070

Country: USA

District: Lansing District Office
Site Name: J. R. Fueslein
Latitude: 42.5685230000
Longitude: -84.8270830000
Date of Collection: 10-05-2004

Method of Collection: Address Matching-House Number

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83

Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-1745-90
Release Date: Sep 11 1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

21 UNITED UNIT # 6253 LUST \$105551120
West 402 W LAWRENCE AVE N/A

1/4-1/2 0.459 mi. 2422 ft.

Relative: LUST:

Lower Facility ID: 00017012

CHARLOTTE, MI 48813

Source: STATE OF MICHIGAN
Actual: Owner Name: Emro Marketing Co
909 ft. Owner Address: Po Box 1500

Owner City, St, Zip: Springfield, OH 45501-1500

Owner Contact: Not reported
Owner Phone: (937) 864-3000

Country: USA

District: Lansing District Office
Site Name: United Service Station #6253

Latitude: 42.5640060000 Longitude: -84.8400040000 Date of Collection: 01-11-2001

Method of Collection: Address Matching-House Number

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT

Desc Category: Plant Entrance (Freight)

Leak Number: C-0357-90

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

UNITED UNIT # 6253 (Continued)

S105551120

EDR ID Number

Release Date: Mar 2 1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Jan 22 1997

22 406 N. SHELDON US BROWNFIELDS 1011860153
WNW 406 N. SHELDON STREET N/A

1/4-1/2 0.472 mi. 2493 ft.

Relative: US BROWNFIELDS:

CHARLOTTE, MI 48813

Higher Recipient name: Charlotte Brownfield Redevelopment Authority

Project name: Charlotte BF Redev Auth, MI (A05)

 Actual:
 Property name:
 406 N. Sheldon

 920 ft.
 Parcel #:
 200-066-618-010-00

 Parcel size:
 0.41

 Latitude:
 42.56738

 Longitude:
 -84.83804

 Region:
 5

HCM label: Not reported Map scale: Not reported Point of reference: Not reported

Datum: World Geodetic System of 1984

ICREQ date: Not reported ACRES property ID: 69341 Start date: 10/11/2007 Completed date: 3/31/2008

Accomplishment type: Phase I Environmental Assessment

Accomplishment (acres): Not reported Ownership entity: Government Current use: Not reported

Current owner: Michigan Deptartment of Natural Resources

Future use: Not reported Past use flag: Yes

Future use flag: Not reported

Cleanup required: No

Proprietary controls: Not reported
Gov. control: Not reported
Enforcement permit tools: Not reported
Info. devices: Not reported

Video available: No
Photo available: Yes
Usage type: Industrial
Not in state/tribal program: Yes

IC data address: Not reported IC in place date: Not reported IC in place flag: Not reported

IC required flag: No

NFA issue date: Not reported State and tribal program date: Not reported State and tribal program ID: Not reported Not reported Air contaminated: Air cleaned: Not reported Asbestos found: Not reported Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

406 N. SHELDON (Continued)

1011860153

EDR ID Number

Drinking water cleaned: Not reported Not reported Groundwater affected: Not reported Groundwater cleaned: Not reported Lead contaminant found: Lead cleaned up: Not reported Not reported None found: Not reported None cleaned up: No media found: Not reported Not reported No media cleaned up: Other found: Not reported Not reported Other cleaned up: Other metals found: Yes

Other metals cleaned:
PAHs found:
PAHs cleaned up:
PCBs found:
PCBs cleaned up:
PCBs cleaned up:
PCBs cleaned up:
PCBs cleaned up:
Petro products found:
Vot reported
Not reported
Yes

Petro products cleaned: Not reported Sediments found: Not reported Sediments cleaned: Not reported Soil affected: Yes Not reported Soil cleaned up: Surface water affected: Not reported Surface water cleaned: Not reported Not reported Unknown found: Unknwon cleaned: Not reported Unknown media: Not reported Unknown media cleaned: Not reported Not reported VOCs found:

Recipient name: Charlotte Brownfield Redevelopment Authority

Not reported

Project name: Charlotte BF Redev Auth, MI (A05)

 Property name:
 406 N. Sheldon

 Parcel #:
 200-066-618-010-00

 Parcel size:
 0.41

 Letitude:
 42.56728

Latitude: 42.56738 Longitude: -84.83804 Region: 5

VOCs cleaned:

HCM label: Not reported Map scale: Not reported Point of reference: Not reported

Datum: World Geodetic System of 1984

ICREQ date: Not reported ACRES property ID: 69341 Start date: 7/1/2008 Completed date: 8/12/2008

Accomplishment type: Phase II Environmental Assessment

Accomplishment (acres): Not reported Ownership entity: Government Current use: Not reported

Current owner: Michigan Deptartment of Natural Resources

Future use: Not reported Past use flag: Yes

Future use flag: Not reported

Cleanup required: No

Map ID MAP FINDINGS
Direction

Distance Elevation Site

te Database(s) EPA ID Number

406 N. SHELDON (Continued)

1011860153

EDR ID Number

Proprietary controls: Not reported Gov. control: Not reported Enforcement permit tools: Not reported Info. devices: Not reported

Video available: No
Photo available: Yes
Usage type: Industrial
Not in state/tribal program: Yes

IC data address: Not reported IC in place date: Not reported IC in place flag: Not reported

IC required flag: No

NFA issue date: Not reported State and tribal program date: Not reported State and tribal program ID: Not reported Air contaminated: Not reported Not reported Air cleaned: Asbestos found: Not reported Asbestos cleaned: Not reported Controled substance found: Not reported Controled substance cleaned: Not reported Drinking water affected: Not reported Drinking water cleaned: Not reported Groundwater affected: Not reported Groundwater cleaned: Not reported Not reported Lead contaminant found: Lead cleaned up: Not reported None found: Not reported None cleaned up: Not reported Not reported No media found: No media cleaned up: Not reported Other found: Not reported Other cleaned up: Not reported

Other metals found: Yes

Other metals cleaned:
PAHs found:
PAHs cleaned up:
PCBs found:
PCBs cleaned up:
PCBs cleaned up:
PCBs cleaned up:
PCBs cleaned up:
Petro products found:
Vot reported
Not reported
Yes

Petro products cleaned: Not reported Sediments found: Not reported Sediments cleaned: Not reported Soil affected: Yes

Not reported Soil cleaned up: Surface water affected: Not reported Surface water cleaned: Not reported Unknown found: Not reported Unknwon cleaned: Not reported Not reported Unknown media: Unknown media cleaned: Not reported VOCs found: Not reported VOCs cleaned: Not reported

Property Description: The property is currently unoccupied. However, the above ground

storage tanks from its previous use as an oil and gas fueling site

remain.

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

23 JOHNSON IRON INDUSTRIES CERCLIS 1000704612 SW 615 W SHEPARD CORRACTS MID006023022

1/2-1 CHARLOTTE, MI 46023 RCRA-NonGen
0.951 mi. RCRA-NonGen

0.951 mi. 5023 ft.

Relative: CERCLIS:

Lower Site ID: 0502357

Federal Facility: Not a Federal Facility

Actual: NPL Status: Not on the NPL

900 ft. Non NPL Status: Referred to Removal - Further Assessment Needed

CERCLIS Site Contact Name(s):

Contact Name: Not reported
Contact Tel: Not reported
Contact Title: 52701

Contact Name: Not reported Contact Tel: Not reported Contact Title: 50002

Site Description: Not reported

CERCLIS Assessment History:

Action: DISCOVERY
Date Started: Not reported
Date Completed: 7/1/1987 0:00:00
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT

Date Started: Not reported
Date Completed: 10/7/1988 0:00:00

Priority Level: Higher priority for further assessment

Action: SITE INSPECTION
Date Started: Not reported
Date Completed: 8/16/1990 0:00:00

Priority Level: Higher priority for further assessment

Action: EXPANDED SITE INSPECTION

Date Started: 10/23/1992 0:00:00 Date Completed: 9/21/1993 0:00:00

Priority Level: Recommended for HRS Scoring

Action: Notice Letters Issued
Date Started: Not reported
Date Completed: 9/23/1994 0:00:00
Priority Level: Not reported

Action: ISSUE REQ LTTRS (104e)

Date Started: Not reported
Date Completed: 10/13/1994 0:00:00
Priority Level: Not reported

Action: ISSUE REQ LTTRS (104e)

Date Started: Not reported
Date Completed: 10/13/1994 0:00:00
Priority Level: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

 Action:
 REMOVAL

 Date Started:
 10/6/1994 0:00:00

 Date Completed:
 7/31/1995 0:00:00

 Priority Level:
 Not reported

Action: ENGINEERING EVAL/COST ANALYSIS

 Date Started:
 2/24/1995 0:00:00

 Date Completed:
 6/2/1998 0:00:00

 Priority Level:
 Not reported

Action: ADMIN ORDER ON CONSENT

Date Started: Not reported
Date Completed: 3/15/1999 0:00:00
Priority Level: Not reported

 Action:
 REMOVAL

 Date Started:
 6/18/2002 0:00:00

 Date Completed:
 9/29/2002 0:00:00

 Priority Level:
 Cleaned up

Action: REMOVAL ASSESSMENT
Date Started: 12/22/1997 0:00:00
Date Completed: Not reported
Priority Level: Not reported

CORRACTS:

EPA ID: MID006023022

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 5/26/1995

Action: CA210SF - CA Responsibility Referred To A Non-RCRA Federal Authority,

Corrective Action at the facility or area referred to CERCLA

NAICS Code(s): 56291

Remediation Services

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID006023022

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 6/30/1993

Action: CA075HI - CA Prioritization, Facility or area was assigned a high

corrective action priority

NAICS Code(s): 56291

Remediation Services

Original schedule date: Not reported Schedule end date: Not reported

EPA ID: MID006023022

EPA Region: 05

Area Name: ENTIRE FACILITY
Actual Date: 9/30/1993

Action: CA225YE - Stabilization Measures Evaluation, This facility ,is

amenable to stabilization activity based on the, status of corrective

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

JOHNSON IRON INDUSTRIES (Continued)

1000704612

action work at the facility, technical factors, the degree of risk,

timing considerations and administrative considerations

NAICS Code(s): 56291

Remediation Services

Original schedule date: Not reported Schedule end date: Not reported

RCRA-NonGen:

Date form received by agency: 12/31/2001

Facility name: JOHNSON IRON INDUSTRIES

615 E SHEPARD ST Facility address: CHARLOTTE, MI 48813

EPA ID: MID006023022 Contact: DONALD JOHNSON Contact address: 615 E SHEPARD ST

CHARLOTTE, MI 48813

Contact country: Not reported Contact telephone: (312) 886-4448 Contact email: Not reported

EPA Region: 05

Land type: Other land type Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Owner/operator address: Not reported Not reported

Not reported Owner/operator country: Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner

Owner/Op start date: 01/01/2002 Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/01/2002 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: Nο Furnace exemption: No Used oil fuel burner: No Used oil processor: No

Direction Distance

Elevation Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

User oil refiner:

Used oil fuel marketer to burner:

Used oil Specification marketer:

Used oil transfer facility:

Used oil transporter:

No

Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY

Accumulated waste on-site: No Generated waste on-site: No

Waste type: MERCURY THERMOMETERS

Accumulated waste on-site: No Generated waste on-site: No

Waste type: MERCURY SWITCHES

Accumulated waste on-site: No Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats

Accumulated waste on-site: No Generated waste on-site: No

Historical Generators:

Date form received by agency: 12/01/2001

Facility name: JOHNSON IRON INDUSTRIES
Classification: Not a generator, verified

Date form received by agency: 03/01/1991

Facility name: JOHNSON IRON INDUSTRIES Classification: Not a generator, verified

Date form received by agency: 05/12/1988

Facility name: JOHNSON IRON INDUSTRIES Classification: Not a generator, verified

Corrective Action Summary:

Event date: 06/30/1993

Event: CA Prioritization, Facility or area was assigned a high corrective

action priority.

Event date: 09/30/1993

Event: Stabilization Measures Evaluation, This facility is amenable to

Direction Distance

Elevation Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.

Event date: 05/26/1995

Event: CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective

Action at the facility or area referred to CERCLA.

Facility Has Received Notices of Violations:

Regulation violated:

Not reported

Area of violation: TSD - Financial Requirements

Date violation determined: 09/23/1992
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL

Enforcement action date: 03/19/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD - Closure/Post-Closure

Date violation determined: 08/28/1992
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL

Enforcement action date: 03/19/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD - Closure/Post-Closure

Date violation determined: 02/28/1991
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL

Enforcement action date: 03/19/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-Ground-Water Monitoring

Date violation determined: 02/28/1991
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Direction Distance Elevation

on Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

Enforcement action date: 06/18/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD - Closure/Post-Closure

Date violation determined: 02/28/1991
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/25/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Paid penalty amount: Not reported
Not reported

Regulation violated: Not reported

Area of violation: TSD IS-Ground-Water Monitoring

Date violation determined: 02/28/1991
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

Regulation violated: Not reported

Paid penalty amount:

Area of violation: TSD IS-Ground-Water Monitoring

Not reported

Date violation determined: 02/28/1991
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/25/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Proposed penalty amount:
Final penalty amount:
Paid penalty amount:
Not reported
Not reported
Not reported

Regulation violated: Not reported

Area of violation: TSD - Closure/Post-Closure

Date violation determined: 02/28/1991
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/1990

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

JOHNSON IRON INDUSTRIES (Continued)

1000704612

Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

TSD - Closure/Post-Closure Area of violation:

Date violation determined: 02/28/1991 Date achieved compliance: 01/11/1994 Violation lead agency: State

WRITTEN INFORMAL Enforcement action:

Enforcement action date: 06/18/1990 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

TSD IS-Ground-Water Monitoring Area of violation:

Date violation determined: 02/28/1991 Date achieved compliance: 01/11/1994 Violation lead agency: State

Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL

Enforcement action date: 03/19/1991 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported TSD - General Area of violation: Date violation determined: 07/24/1990 Date achieved compliance: 12/28/1990 Violation lead agency: State

WRITTEN INFORMAL Enforcement action:

Enforcement action date: 07/25/1989 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported TSD - General Area of violation: Date violation determined: 07/24/1990 12/28/1990 Date achieved compliance: Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

07/31/1990 Enforcement action date: Enf. disposition status: Not reported

Direction
Distance

Elevation Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

Enf. disp. status date: Not reported Enforcement lead agency: State
Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 07/24/1990
Date achieved compliance: 12/28/1990
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/18/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Paid penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported Area of violation: TSD - General Date violation determined: 07/24/1990 Date achieved compliance: Violation lead agency: State

Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL

Enforcement action date: 03/19/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 06/11/1990
Date achieved compliance: Violation lead agency: State

Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL

Enforcement action date: 03/19/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

Final penalty amount: Not reported Not reported Not reported Not reported Not reported

Regulation violated: Not reported Area of violation: TSD - General Date violation determined: 06/11/1990 12/28/1990 State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/1990 Enf. disposition status: Not reported Enf. disp. status date: Not reported

Direction Distance Elevation

evation Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated:
Area of violation:

Date violation determined:
Date achieved compliance:
Violation lead agency:

Not reported
TSD - General
06/11/1990
12/28/1990
State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/25/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 06/11/1990
Date achieved compliance: 12/28/1990
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/18/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Formal Enforcement Agreement or Order

Date violation determined: 07/14/1989
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/25/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Formal Enforcement Agreement or Order

Date violation determined: 07/14/1989
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/1990 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State

Direction Distance Elevation

vation Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD - Corrective Action for SWMUs

Date violation determined: 07/14/1989
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL

Enforcement action date: 03/19/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD - Corrective Action for SWMUs

Date violation determined: 07/14/1989
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/25/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD - Corrective Action for SWMUs

Date violation determined: 07/14/1989
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/31/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Formal Enforcement Agreement or Order

Date violation determined: 07/14/1989
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/18/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Formal Enforcement Agreement or Order

Date violation determined: 07/14/1989
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL

Enforcement action date: 03/19/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD - Corrective Action for SWMUs

Date violation determined: 07/14/1989
Date achieved compliance: 01/11/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/18/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-Ground-Water Monitoring

Date violation determined: 06/23/1987 08/13/1988 Date achieved compliance: Violation lead agency: State Enforcement action: Not reported Enforcement action date: Not reported Enf. disposition status: Not reported Enf. disp. status date: Not reported Not reported Enforcement lead agency: Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD - Closure/Post-Closure

Date violation determined: 06/23/1987
Date achieved compliance: 12/01/1988
Violation lead agency: State
Enforcement action: Not reported
Enf. disposition status: Not reported

Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: Proposed penalty amount: Not reported Not reported Not reported Not reported

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

JOHNSON IRON INDUSTRIES (Continued)

1000704612

Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 09/23/1992

Evaluation: FINANCIAL RECORD REVIEW Area of violation: TSD - Financial Requirements

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 08/28/1992

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

TSD - Closure/Post-Closure Area of violation:

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

09/13/1991 Evaluation date:

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Area of violation: TSD - Closure/Post-Closure

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 09/13/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - General Date achieved compliance: 12/28/1990 Evaluation lead agency: State

Evaluation date: 09/13/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

TSD - Corrective Action for SWMUs Area of violation:

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 09/13/1991

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Area of violation: Formal Enforcement Agreement or Order

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 09/13/1991

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 02/28/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

TSD - Closure/Post-Closure Area of violation:

01/11/1994 Date achieved compliance: Evaluation lead agency: State

Evaluation date: 02/28/1991

COMPLIANCE SCHEDULE EVALUATION Evaluation:

TSD - General Area of violation: Date achieved compliance: 12/28/1990 Evaluation lead agency: State

Direction Distance

Elevation Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

Evaluation date: 02/28/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 02/28/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Formal Enforcement Agreement or Order

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 02/28/1991

Evaluation: COMPLIANCE SCHEDULE EVALUATION Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 12/28/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: TSD - Closure/Post-Closure

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 12/28/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 12/28/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 12/28/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: TSD - General Date achieved compliance: 12/28/1990 Evaluation lead agency: State

Evaluation date: 12/28/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION Area of violation: Formal Enforcement Agreement or Order

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/24/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/24/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: TSD - Closure/Post-Closure

Direction Distance

Elevation Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/24/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Formal Enforcement Agreement or Order

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/24/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/24/1990

Evaluation: COMPLIANCE SCHEDULE EVALUATION

Area of violation: TSD - General Date achieved compliance: 12/28/1990 Evaluation lead agency: State

Evaluation date: 06/11/1990

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 06/11/1990

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Formal Enforcement Agreement or Order

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 06/11/1990

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 06/11/1990

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - General Date achieved compliance: 12/28/1990 Evaluation lead agency: State

Evaluation date: 06/11/1990

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - Closure/Post-Closure

Date achieved compliance: 01/11/1994
Evaluation lead agency: State

Evaluation date: 04/19/1990

Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Formal Enforcement Agreement or Order

Date achieved compliance: 01/11/1994
Evaluation lead agency: State

Direction Distance

Elevation Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

Evaluation date: 04/19/1990

Evaluation: FOCUSED COMPLIANCE INSPECTION Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 04/19/1990

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: TSD - Closure/Post-Closure

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 04/19/1990

Evaluation: FOCUSED COMPLIANCE INSPECTION Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 04/19/1990

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: TSD - General Date achieved compliance: 12/28/1990 Evaluation lead agency: State

Evaluation date: 07/14/1989

Evaluation: NON-FINANCIAL RECORD REVIEW Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/14/1989

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/14/1989

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - General Date achieved compliance: 12/28/1990 Evaluation lead agency: State

Evaluation date: 07/14/1989

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: TSD - Closure/Post-Closure

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/14/1989

Evaluation: NON-FINANCIAL RECORD REVIEW Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/14/1989

Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Formal Enforcement Agreement or Order

Map ID MAP FINDINGS
Direction

Direction

Elevation Site Database(s) EPA ID Number

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/14/1989

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - Corrective Action for SWMUs

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/14/1989

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - Closure/Post-Closure

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 07/14/1989

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: TSD - General Date achieved compliance: 12/28/1990 Evaluation lead agency: State

Evaluation date: 07/14/1989

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Formal Enforcement Agreement or Order

Date achieved compliance: 01/11/1994 Evaluation lead agency: State

Evaluation date: 06/23/1987

Evaluation: NON-FINANCIAL RECORD REVIEW Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 08/13/1988 Evaluation lead agency: State

Evaluation date: 06/23/1987

Evaluation: NON-FINANCIAL RECORD REVIEW

Area of violation: TSD - Closure/Post-Closure

Date achieved compliance: 12/01/1988 Evaluation lead agency: State

FINDS:

Registry ID: 110003583694

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and

Map ID Direction Distance Elevation

Site

MAP FINDINGS

Database(s)

JOHNSON IRON INDUSTRIES (Continued)

1000704612

EDR ID Number

EPA ID Number

Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHARLOTTE	1001232590		I 69 UNDERISLAND HIGHWAY	48813	RCRA-NonGen, FINDS
CHARLOTTE	S100069404	CHARLOTTE SANITARY LANDFILL	HALL ST	48813	HIST LF
CHARLOTTE	1000364609	CHARLOTTE MUNICIPAL AIRPORT	ISLAND HWY	48813	SHWS
CHARLOTTE	1003871381		ISLAND HWY	48813	CERC-NFRAP
CHARLOTTE	S109847272	504 LANSING ROAD	504 LANSING ROAD	48813	BEA
CHARLOTTE	S108228805	LOVETT STREET GROUNDWATER CONTAMIN	LOVETT ST	48813	SHWS
CHARLOTTE	1004725675		POINT HWY	48813	RCRA-NonGen, FINDS
CHARLOTTE	S103595322	CONSUMERS ENERGY	720 RAILROAD ST	48813	BEA, SHWS
CHARLOTTE	S105143993	AE HOOVER PROPERTY	SHEPARD ST	48813	BROWNFIELDS, SHWS
CHARLOTTE	1003871110		446 STINE RD	48813	CERC-NFRAP, SHWS
CHARLOTTE	1000364608	CHARLOTTE DISPOSAL LANDFILL	STINE ROAD VALLEY HWY	48813	HIST LF

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/01/2009 Source: EPA
Date Data Arrived at EDR: 10/14/2009 Telephone: N/A

Date Made Active in Reports: 11/09/2009 Last EDR Contact: 11/13/2009

Number of Days to Update: 26 Next Scheduled EDR Contact: 01/25/2010
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/01/2009 Source: EPA
Date Data Arrived at EDR: 10/14/2009 Telephone: N/A

Date Made Active in Reports: 11/09/2009 Last EDR Contact: 11/13/2009

Number of Days to Update: 26 Next Scheduled EDR Contact: 01/25/2010
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/17/2009

Next Scheduled EDR Contact: 11/16/2009 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the

NPL where no further response is appropriate.

Date of Government Version: 10/01/2009 Date Data Arrived at EDR: 10/14/2009 Date Made Active in Reports: 11/09/2009

Number of Days to Update: 26

Source: EPA Telephone: N/A

Last EDR Contact: 11/13/2009

Next Scheduled EDR Contact: 01/25/2010 Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/30/2009 Date Data Arrived at EDR: 08/11/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 41

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 11/23/2009

Next Scheduled EDR Contact: 01/11/2010 Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 06/23/2009 Date Data Arrived at EDR: 09/02/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 19

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 11/24/2009

Next Scheduled EDR Contact: 03/15/2010 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/15/2009 Date Data Arrived at EDR: 09/22/2009 Date Made Active in Reports: 11/09/2009

Number of Days to Update: 48

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 11/16/2009

Next Scheduled EDR Contact: 03/01/2010 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/12/2008 Date Data Arrived at EDR: 11/18/2008 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 118

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 11/18/2009

Next Scheduled EDR Contact: 01/18/2010 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008 Date Data Arrived at EDR: 11/18/2008 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 118

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 11/18/2009

Next Scheduled EDR Contact: 01/18/2010 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/12/2008 Date Data Arrived at EDR: 11/18/2008 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 118

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 11/18/2009

Next Scheduled EDR Contact: 01/18/2010 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009

Number of Days to Update: 118

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 11/18/2009

Next Scheduled EDR Contact: 01/18/2010 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/01/2009 Date Data Arrived at EDR: 10/09/2009 Date Made Active in Reports: 11/09/2009

Number of Days to Update: 31

Source: Environmental Protection Agency Telephone: 703-603-0695

Last EDR Contact: 09/18/2009

Next Scheduled EDR Contact: 12/28/2009 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 10/01/2009 Date Data Arrived at EDR: 10/09/2009 Date Made Active in Reports: 11/09/2009

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 09/18/2009

Next Scheduled EDR Contact: 12/28/2009 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Substances.

Date of Government Version: 08/31/2009 Date Data Arrived at EDR: 09/17/2009 Date Made Active in Reports: 11/09/2009

Number of Days to Update: 53

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 10/06/2009

Next Scheduled EDR Contact: 01/18/2010 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Contaminated Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 10/28/2009 Date Data Arrived at EDR: 11/03/2009 Date Made Active in Reports: 11/17/2009

Number of Days to Update: 14

Source: Department of Environmental Quality

Telephone: 517-373-9541 Last EDR Contact: 11/03/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/06/2009 Date Data Arrived at EDR: 10/08/2009 Date Made Active in Reports: 11/17/2009

Number of Days to Update: 40

Source: Department of Environmental Quality

Telephone: 517-335-4035 Last EDR Contact: 10/05/2009

Next Scheduled EDR Contact: 01/18/2010 Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 09/01/2009 Date Data Arrived at EDR: 09/04/2009 Date Made Active in Reports: 10/05/2009

Number of Days to Update: 31

Source: Department of Environmental Quality

Telephone: 517-373-9837 Last EDR Contact: 11/24/2009

Next Scheduled EDR Contact: 03/08/2010 Data Release Frequency: Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/24/2009 Date Data Arrived at EDR: 09/10/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 42

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/24/2009 Date Data Arrived at EDR: 05/20/2009 Date Made Active in Reports: 06/17/2009

Number of Days to Update: 28

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 11/04/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/24/2009 Date Data Arrived at EDR: 08/26/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 26

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/19/2009 Date Data Arrived at EDR: 02/19/2009 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 25

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 08/21/2009 Date Data Arrived at EDR: 10/06/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 16

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/20/2009 Date Data Arrived at EDR: 08/21/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 31

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/20/2009 Date Data Arrived at EDR: 08/26/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 57

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank Facility List

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/01/2009 Date Data Arrived at EDR: 09/04/2009 Date Made Active in Reports: 10/01/2009

Number of Days to Update: 27

Source: Department of Environmental Quality

Telephone: 517-335-4035 Last EDR Contact: 11/24/2009

Next Scheduled EDR Contact: 03/08/2010 Data Release Frequency: Annually

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 09/15/2009 Date Data Arrived at EDR: 09/22/2009 Date Made Active in Reports: 10/01/2009

Number of Days to Update: 9

Source: Department of Environmental Quality

Telephone: 517-373-8168 Last EDR Contact: 11/23/2009

Next Scheduled EDR Contact: 03/08/2010 Data Release Frequency: No Update Planned

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 09/08/2008 Date Data Arrived at EDR: 09/19/2008 Date Made Active in Reports: 10/16/2008

Number of Days to Update: 27

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 10/22/2009

Next Scheduled EDR Contact: 11/16/2009 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 08/24/2009 Date Data Arrived at EDR: 08/26/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 26

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/20/2009 Date Data Arrived at EDR: 08/26/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 57

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009 Date Data Arrived at EDR: 02/19/2009 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 25

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/20/2009 Date Data Arrived at EDR: 08/21/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 31

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008 Date Data Arrived at EDR: 12/30/2008 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 76

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 11/04/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/24/2009 Date Data Arrived at EDR: 09/10/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 42

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/21/2009 Date Data Arrived at EDR: 08/26/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 57

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 10/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 10/05/2009

Next Scheduled EDR Contact: 01/18/2010 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields and USTfield Site Database

All state funded Part 201 and 213 sites, as well as LUST sites that have been redeveloped by private entities using the BEA process. Be aware that this is not a list of all of the potential brownfield sites in Michigan.

Date of Government Version: 09/21/2009 Date Data Arrived at EDR: 09/21/2009 Date Made Active in Reports: 10/05/2009

Number of Days to Update: 14

Source: Department of Environmental Quality

Telephone: 517-373-4805 Last EDR Contact: 11/30/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Building and Land Site Locations

A listing of brownfield building and land site locations. The listing is a collaborative effort of Michigan Economic Development Corporation, Michigan Economic Developers Association, Detrot Edison, Detroit Area Commercial Board of Realtors

Date of Government Version: 04/09/2007 Date Data Arrived at EDR: 04/10/2007 Date Made Active in Reports: 05/01/2007

Number of Days to Update: 21

Source: Economic Development Corporation

Telephone: 888-522-0103 Last EDR Contact: 09/15/2009

Next Scheduled EDR Contact: 12/21/2009

Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/01/2009 Date Data Arrived at EDR: 09/11/2009 Date Made Active in Reports: 11/09/2009

Number of Days to Update: 59

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 11/04/2009

Next Scheduled EDR Contact: 01/11/2010 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-972-3336 Last EDR Contact: 09/23/2009

Next Scheduled EDR Contact: 12/21/2009 Data Release Frequency: Varies

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/1997 Date Data Arrived at EDR: 02/28/2003 Date Made Active in Reports: 03/06/2003

Number of Days to Update: 6

Source: Department of Environmental Quality

Telephone: 517-335-4034 Last EDR Contact: 02/28/2003 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 11/09/2009

Next Scheduled EDR Contact: 02/22/2010 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/01/2009 Date Data Arrived at EDR: 06/22/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 91

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/26/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: Quarterly

DEL SHWS: Delisted List of Contaminated Sites

Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does not support it's listing or the site no longer meets criteria specified in rules.

Date of Government Version: 11/04/2009 Date Data Arrived at EDR: 11/04/2009 Date Made Active in Reports: 11/17/2009

Number of Days to Update: 13

Source: Department of Environmental Quality

Telephone: 517-373-9541 Last EDR Contact: 11/02/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Varies

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations.

Date of Government Version: 10/20/2008 Date Data Arrived at EDR: 11/18/2008 Date Made Active in Reports: 11/21/2008

Number of Days to Update: 3

Source: Department of Community Health

Telephone: 517-373-3740 Last EDR Contact: 11/02/2009

Next Scheduled EDR Contact: 02/15/2010

Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 11/19/2008 Date Made Active in Reports: 03/30/2009

Number of Days to Update: 131

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 08/18/2009 Date Data Arrived at EDR: 08/21/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 11/02/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 31

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 11/20/2009

Next Scheduled EDR Contact: 03/08/2010 Data Release Frequency: Varies

LIENS: Lien List

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC * 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition

Date of Government Version: 08/12/2009 Date Data Arrived at EDR: 10/29/2009 Date Made Active in Reports: 11/17/2009

Number of Days to Update: 19

Source: Department of Environmental Quality

Telephone: 517-373-9837 Last EDR Contact: 10/27/2009

Next Scheduled EDR Contact: 02/08/2010 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 10/05/2009 Date Data Arrived at EDR: 10/05/2009 Date Made Active in Reports: 11/09/2009

Number of Days to Update: 35

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 10/05/2009

Next Scheduled EDR Contact: 01/11/2010 Data Release Frequency: Annually

PEAS: Pollution Emergency Alerting System

Environmental pollution emergencies reported to the Department of Environmental Quality such as tanker accidents, pipeline breaks, and release of reportable quantities of hazardous substances.

Date of Government Version: 09/21/2009 Date Data Arrived at EDR: 09/22/2009 Date Made Active in Reports: 10/05/2009

Number of Days to Update: 13

Source: Department of Environmental Quality

Telephone: 517-373-8427 Last EDR Contact: 09/22/2009

Next Scheduled EDR Contact: 12/28/2009 Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/12/2008 Date Data Arrived at EDR: 11/18/2008 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 118

Source: Environmental Protection Agency

Telephone: 312-886-6186 Last EDR Contact: 11/18/2009

Next Scheduled EDR Contact: 01/18/2010 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008 Date Data Arrived at EDR: 05/28/2008 Date Made Active in Reports: 08/08/2008

Number of Days to Update: 72

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 11/10/2009

Next Scheduled EDR Contact: 02/22/2010 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 703-692-8801 Last EDR Contact: 10/23/2009

Next Scheduled EDR Contact: 02/01/2010 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 09/05/2008 Date Made Active in Reports: 09/23/2008

Number of Days to Update: 18

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 09/30/2009

Next Scheduled EDR Contact: 12/28/2009
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 08/03/2009 Date Data Arrived at EDR: 10/27/2009 Date Made Active in Reports: 11/09/2009

Number of Days to Update: 13

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 10/06/2009

Next Scheduled EDR Contact: 01/18/2010 Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/01/2009 Date Data Arrived at EDR: 09/22/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 30

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 09/22/2009

Next Scheduled EDR Contact: 12/28/2009 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 01/05/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 05/08/2009

Number of Days to Update: 1

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 11/30/2009

Next Scheduled EDR Contact: 03/15/2010 Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/07/2009 Date Data Arrived at EDR: 09/18/2009 Date Made Active in Reports: 11/09/2009

Number of Days to Update: 52

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 09/18/2009

Next Scheduled EDR Contact: 12/21/2009 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 04/09/2009 Date Made Active in Reports: 06/17/2009

Number of Days to Update: 69

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 09/14/2009

Next Scheduled EDR Contact: 12/14/2009 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002 Date Data Arrived at EDR: 04/14/2006 Date Made Active in Reports: 05/30/2006

Number of Days to Update: 46

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 10/07/2009

Next Scheduled EDR Contact: 01/11/2010 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 11/30/2009

Next Scheduled EDR Contact: 03/15/2010 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 11/30/2009

Next Scheduled EDR Contact: 03/15/2010 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 05/19/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 125

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 11/02/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 08/21/2009 Date Data Arrived at EDR: 08/27/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 56

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 09/28/2009

Next Scheduled EDR Contact: 01/11/2010 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 05/27/2009 Date Data Arrived at EDR: 08/05/2009 Date Made Active in Reports: 09/29/2009

Number of Days to Update: 55

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 10/21/2009

Next Scheduled EDR Contact: 02/01/2010 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/06/2009 Date Data Arrived at EDR: 07/13/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 70

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 09/21/2009

Next Scheduled EDR Contact: 12/28/2009 Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/28/2009 Date Data Arrived at EDR: 07/28/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 55

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 10/16/2009

Next Scheduled EDR Contact: 01/25/2010 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/23/2009 Date Data Arrived at EDR: 07/28/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 55

Source: EPA

Telephone: (312) 353-2000 Last EDR Contact: 09/18/2009

Next Scheduled EDR Contact: 12/28/2009 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 02/19/2009 Date Made Active in Reports: 05/22/2009

Number of Days to Update: 92

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 11/20/2009

Next Scheduled EDR Contact: 03/05/2010 Data Release Frequency: Biennially

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 09/10/2009 Date Data Arrived at EDR: 09/10/2009 Date Made Active in Reports: 10/05/2009

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 517-241-1515 Last EDR Contact: 11/02/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments
A listing of drycleaning facilities in Michigan.

Date of Government Version: 02/18/2009 Date Data Arrived at EDR: 03/17/2009 Date Made Active in Reports: 04/01/2009

Number of Days to Update: 15

Source: Department of Environmental Quality

Telephone: 517-335-4586 Last EDR Contact: 10/26/2009

Next Scheduled EDR Contact: 02/08/2010

Data Release Frequency: Varies

NPDES: List of Active NPDES Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits and NPDES Storm Water permits.

Date of Government Version: 10/13/2009 Date Data Arrived at EDR: 10/14/2009 Date Made Active in Reports: 11/17/2009

Number of Days to Update: 34

Source: Department of Environmental Quality

Telephone: 517-241-1300 Last EDR Contact: 10/14/2009

Next Scheduled EDR Contact: 01/25/2010 Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data Permit and emissions inventory data.

> Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 10/09/2009 Date Made Active in Reports: 11/17/2009

Number of Days to Update: 39

Source: Department of Environmental Quality

Telephone: 517-373-7074 Last EDR Contact: 10/05/2009

Next Scheduled EDR Contact: 01/11/2010 Data Release Frequency: Varies

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

A Baseline Environmental Assessment (BEA) allows people to purchase or begin operating at a facility without being held liable for existing contamination. BEAs are used to gather enough information about the property being transferred so that existing contamination can be distinguished from any new releases that might occur after the new owner or operator takes over the property.

Date of Government Version: 09/14/2009 Date Data Arrived at EDR: 09/14/2009 Date Made Active in Reports: 10/05/2009

Number of Days to Update: 21

Source: DEPT. OF ENVIRONMENTAL QUALITY

Telephone: 517-373-9541 Last EDR Contact: 11/23/2009

Next Scheduled EDR Contact: 03/08/2010 Data Release Frequency: Semi-Annually

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 10/23/2009

Next Scheduled EDR Contact: 02/01/2010 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 09/09/2009 Date Data Arrived at EDR: 09/09/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 43

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 11/09/2009

Next Scheduled EDR Contact: 02/08/2010

Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008 Date Data Arrived at EDR: 02/18/2009 Date Made Active in Reports: 05/29/2009

Number of Days to Update: 100

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 11/13/2009

Next Scheduled EDR Contact: 02/15/2010 Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 10/23/2009

Next Scheduled EDR Contact: 02/01/2010

Data Release Frequency: N/A

COAL ASH: Coal Ash Disposal Sites

Coal fired power plants in Southeast Michigan that have coal ash handling on site.

Date of Government Version: 10/29/2009 Date Data Arrived at EDR: 11/05/2009 Date Made Active in Reports: 11/17/2009

Number of Days to Update: 12

Source: Department of Environmental Quality

Telephone: 586-753-3754 Last EDR Contact: 10/26/2009

Next Scheduled EDR Contact: 01/25/2010 Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 08/26/2009 Date Made Active in Reports: 09/11/2009

Number of Days to Update: 16

Source: Department of Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 11/24/2009

Next Scheduled EDR Contact: 03/08/2010 Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008 Date Data Arrived at EDR: 05/05/2009 Date Made Active in Reports: 05/22/2009

Number of Days to Update: 17

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 10/20/2009

Next Scheduled EDR Contact: 02/01/2010 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

facility.

Date of Government Version: 07/28/2009 Date Data Arrived at EDR: 08/27/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 25

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 11/10/2009

Next Scheduled EDR Contact: 02/22/2010 Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 09/11/2008 Date Made Active in Reports: 10/02/2008

Number of Days to Update: 21

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 11/23/2009

Next Scheduled EDR Contact: 03/08/2010 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 06/01/2009 Date Data Arrived at EDR: 06/12/2009 Date Made Active in Reports: 06/29/2009

Number of Days to Update: 17

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 11/30/2009

Next Scheduled EDR Contact: 03/15/2010 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008 Date Data Arrived at EDR: 07/17/2009 Date Made Active in Reports: 08/10/2009

Number of Days to Update: 24

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 09/24/2009

Next Scheduled EDR Contact: 01/04/2010 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources

Telephone: 517-241-2254

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TASTY TWIST 102 LANSING STREET CHARLOTTE, MI 48813

TARGET PROPERTY COORDINATES

Latitude (North): 42.56450 - 42° 33' 52.2" Longitude (West): 84.8308 - 84° 49' 50.9"

Universal Tranverse Mercator: Zone 16 UTM X (Meters): 678060.1 UTM Y (Meters): 4714521.5

Elevation: 912 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 42084-E7 CHARLOTTE, MI

Most Recent Revision: 1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

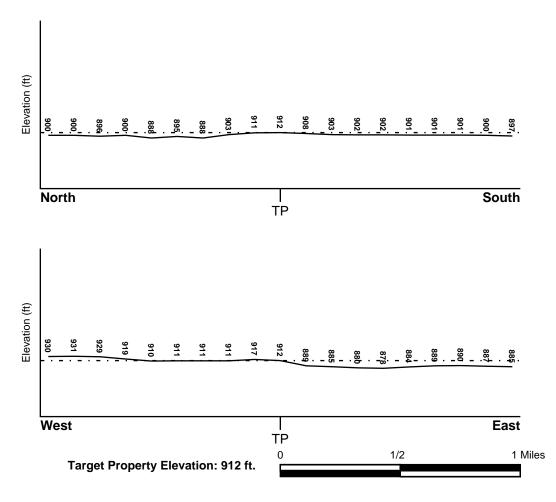
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood Electronic Data

Target Property County Electronic Da
EATON, MI Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
CHARLOTTE

NWI Electronic
Data Coverage
Not Available

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era: Paleozoic Category: Stratifed Sequence

System: Pennsylvanian

Series: Atokan and Morrowan Series

Code: PP1 (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CAPAC

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic

conductivity, wet state high in profile, etc. Depth to water table is

1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

Soil Layer Information								
	Boundary			Classification				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)	
1	0 inches	8 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.60	
2	8 inches	35 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.30 Min: 5.60	
3	35 inches	60 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40	

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loamy fine sand

muck sandy loam fine sandy loam

sand

loamy sand

Surficial Soil Types: loamy fine sand

muck sandy loam fine sandy loam

sand loamy sand

Shallow Soil Types: loamy sand

loamy very fine sand

sand

Deeper Soil Types: fine sand

clay loam stratified sandy loam loamy fine sand

muck sand

gravelly - sand

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

LOCATION

MAP ID WELL ID FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

LOCATION MAP ID WELL ID FROM TP

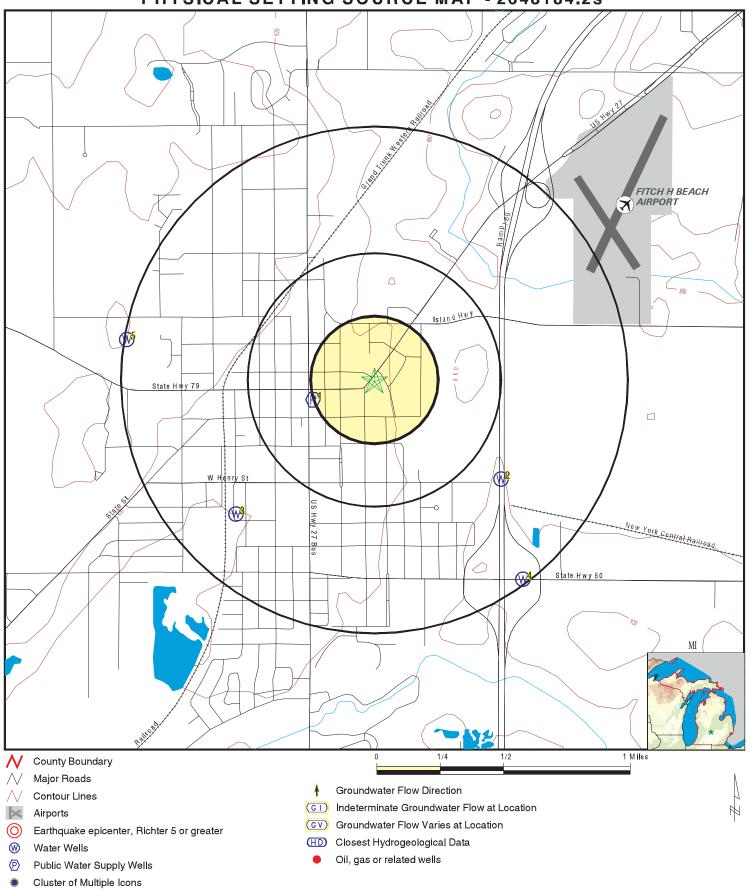
1 MI0001340 1/4 - 1/2 Mile WSW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	MI20060725	1/2 - 1 Mile SE
3	MI20061010	1/2 - 1 Mile SW
4	MI20063314	1/2 - 1 Mile SE
5	MI20061011	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 2648184.2s



SITE NAME: Tasty Twist ADDRESS: 102 Lansing Street

ADDRESS: 102 Lansing Street Charlotte MI 48813 LAT/LONG: 42.5645 / 84.8308 CLIENT: NTH Consultants Ltd. CONTACT: Sherry Kirkbride INQUIRY#: 2648184.2s

DATE: November 30, 2009 4:06 pm

Map ID Direction Distance

Elevation Database EDR ID Number

1 WSW FRDS PWS MI0001340

1/4 - 1/2 Mile Lower

Contact zip:

Pwsid: MI0001340 Epa region: 05

State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater
Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 1059
Facility name: WELL 1 - PUMP 1

Facility name: WELL 1 - PUMP 1
Facility type: Well Treatment process: inhibitor, orthophosphate

Treatment objective: corrosion control
Contact name: MOSS, KEITH

Original name: MOSS, KEITH
Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address1: The East Lawrence Avenue
Contact address2: Not Reported

Contact city: CHARLOTTE
Contact zip: 48813

Pwsid: MI0001340 Epa region: 05
State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

Pws type: CWS
Status: Active Owner type: Local_Govt

Facility id: 1060

Facility name: WELL 1-PUMP 2

Facility type: Well Treatment process: inhibitor, orthophosphate

Treatment objective: corrosion control
Contact name: MOSS, KEITH
Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue Contact address2: Not Reported

Contact address2: Not Reported

Contact city: CHARLOTTE

Pwsid:MI0001340Epa region:05State:MICounty:Eaton

48813

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122
PWS Source: Groundwater

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 1061
Facility name: WELL 3

Facility type: Well Treatment process: inhibitor, orthophosphate Treatment objective: corrosion control

Contact address1:

Pwssvcconn:

Owner type:

Treatment process:

Contact address1:

Pwssvcconn:

Owner type:

Treatment process:

Contact address1:

Pwssvcconn:

111 East Lawrence Avenue

3122

3122

3122

Local_Govt

gaseous chlorination, pre

111 East Lawrence Avenue

Local_Govt

inhibitor, orthophosphate

111 East Lawrence Avenue

Contact name: MOSS, KEITH
Original name: MOSS, KEITH
Contact there: MOSS, KEITH

Contact phone: 517-543-2750
Contact address2: Not Reported

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089

PWS Source: Groundwater

Pws type: CWS

Status: Active Facility id: 1062

Facility name: WELL 5 Facility type: Well

Treatment objective: corrosion control Contact name: Well

Well

Corrosion control

MOSS, KEITH

Original name: MOSS, KEITH Contact phone: 517-543-2750

Contact address2: Not Reported Contact city: CHARLOTTE

Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089

PWS Source: Groundwater

Pws type: CWS

Status: Active

Facility id: 1061

Facility name: WELL 3

Facility type: Well

Treatment objective: disinfection
Contact name: MOSS, KEITH
Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address2: Not Reported

Contact city: CHARLOTTE

Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089

PWS Source: Groundwater

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 1062 Facility name: WELL 5

Facility type: Well Treatment process: gaseous chlorination, pre

Treatment objective: disinfection

MOSS, KEITH Contact name: Original name: MOSS, KEITH Contact phone: 517-543-2750

Contact address2: Not Reported Contact city: CHARLOTTE

Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI

CHARLOTTE, CITY OF Pws name:

Population Served: 8089

PWS Source: Groundwater

Pws type: **CWS**

Status: Active 3960 Facility id:

Facility name: **DISTRIBUTION SYSTEM**

Facility type: Distribution_system_zone

Treatment objective: disinfection Contact name: MOSS, KEITH

Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address2: Not Reported Contact city: CHARLOTTE

Contact zip: 48813

Pwsid: MI0001340 State: County: Eaton

CHARLOTTE, CITY OF Pws name:

Population Served: 8089

PWS Source: Groundwater

CWS Pws type:

Status: Active

Facility id: 5597

WELLHOUSE NO. 1 Facility name:

Facility type: Treatment_plant Treatment objective: disinfection

Contact name: MOSS, KEITH Original name: MOSS, KEITH Contact phone: 517-543-2750

Contact address2: Not Reported Contact city: CHARLOTTE

Contact zip: 48813

Pwsid: MI0001340

State: MI

Pws name: CHARLOTTE, CITY OF

Population Served: 8089

PWS Source: Groundwater

CWS Pws type:

Status: Active

Facility id: 5598

WELLHOUSE NO.3 Facility name:

Treatment_plant Facility type:

Treatment objective: disinfection Contact address1: 111 East Lawrence Avenue

Eaton County:

3122 Pwssvcconn:

Owner type: Local_Govt

Treatment process: gaseous chlorination, pre

Contact address1: 111 East Lawrence Avenue

Epa region: 05

Pwssvcconn: 3122

Owner type: Local_Govt

Treatment process: gaseous chlorination, pre

Contact address1: 111 East Lawrence Avenue

05 Epa region:

Eaton County:

Pwssvcconn: 3122

Owner type: Local_Govt

Treatment process: gaseous chlorination, pre

Contact name: MOSS, KEITH
Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: 5602

Facility id: 5602 Facility name: WELLHOUSE NO.5

Facility type: Treatment_plant Treatment process: gaseous chlorination, pre

Treatment objective: disinfection
Contact name: MOSS, KEITH
Original name: MOSS, KEITH
Contact phone: 517-543-2750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater
Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 6768

Facility name: MCLURE AND SHELDON TANK

Facility type: Storage Treatment process: gaseous chlorination, pre

Treatment objective: disinfection
Contact name: MOSS, KEITH
Original name: MOSS, KEITH
Contact phone: 517-543-2750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 8989

Facility name: SHEPPARD STREET STORAGE TANK

Facility type: Storage Treatment process: gaseous chlorination, pre

Treatment objective: disinfection

MOSS, KEITH Contact name: Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 Eaton State: MI County:

CHARLOTTE, CITY OF Pws name:

Population Served: 8089 3122 Pwssvcconn:

PWS Source: Groundwater Pws type: **CWS**

Status: Active Owner type: Local_Govt

Facility id: 1059 WELL 1 - PUMP 1 Facility name:

Facility type: Well Treatment process: fluoridation

Treatment objective: other

MOSS, KEITH Contact name: Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: County: Eaton

CHARLOTTE, CITY OF Pws name:

Population Served: 8089 Pwssvcconn: 3122

Groundwater PWS Source:

CWS Pws type:

Status: Active Owner type: Local_Govt Facility id: 1060

Facility name: WELL 1-PUMP 2

Facility type: Well Treatment process: fluoridation

Treatment objective: other Contact name: MOSS, KEITH

Original name: MOSS, KEITH Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE

Contact zip: MI0001340 05 Pwsid: Epa region:

State: Eaton MI County:

48813

WELL 3

Pws name: CHARLOTTE, CITY OF Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

CWS Pws type: Status: Active Owner type: Local_Govt

Facility id: 1061

Facility name: Facility type: Well Treatment process: fluoridation

Treatment objective: other

Contact address1:

111 East Lawrence Avenue

05 Eaton

3122

MOSS, KEITH Contact name: Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address2: Not Reported

Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: State: MI

County: CHARLOTTE, CITY OF Pws name:

Population Served: 8089 Pwssvcconn:

PWS Source: Groundwater Pws type: **CWS**

Status: Active

Owner type: Local_Govt Facility id: 1062

WELL 5 Facility name:

Facility type: Well Treatment process: fluoridation other

Treatment objective: MOSS, KEITH Contact name: Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: County: Eaton

CHARLOTTE, CITY OF Pws name:

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater **CWS** Pws type:

Status: Active Owner type: Local_Govt

3960 Facility id:

Facility name: **DISTRIBUTION SYSTEM**

Facility type: Distribution_system_zone Treatment process: fluoridation

Treatment objective: other

Contact zip:

Contact name: MOSS, KEITH Original name: MOSS, KEITH Contact phone: 517-543-2750 Contact address2: Not Reported

Contact city: CHARLOTTE

Contact address1:

Pwsid: MI0001340

05 Epa region: State: Eaton MI County:

Pws name: CHARLOTTE, CITY OF

48813

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater **CWS** Pws type:

Status: Active Owner type: Local_Govt 5597

Facility id: WELLHOUSE NO. 1 Facility name:

Facility type: Treatment_plant Treatment process: fluoridation

Treatment objective: other 111 East Lawrence Avenue

Contact name: MOSS, KEITH Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater
Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 5598
Facility name: WELLHOUSE NO.3

Facility type: Treatment_plant Treatment process: fluoridation

Treatment objective: other

Contact name: MOSS, KEITH
Original name: MOSS, KEITH
Contact phone: 517-543-2750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid:MI0001340Epa region:05State:MICounty:Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater
Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 5602

Facility name: WELLHOUSE NO.5

Facility type: Treatment_plant Treatment process: fluoridation

Treatment objective: other

Contact name: MOSS, KEITH
Original name: MOSS, KEITH
Contact phone: 517-543-2750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue Contact address2: Not Reported

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 6768

Facility name: MCLURE AND SHELDON TANK

Facility type: Storage Treatment process: fluoridation

Treatment objective: other

Contact name: MOSS, KEITH Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 8989
Facility name: SHEPPARD STREET STORAGE TANK

Facility type: Storage Treatment process: fluoridation

Treatment objective: other

Contact name: MOSS, KEITH Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05
State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater
Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 1059

Facility name: WELL 1 - PUMP 1

Facility type: Well Treatment process: inhibitor, orthophosphate

Treatment objective: corrosion control Contact name: MOSS, KEITH Original name: MOSS, KEITH Contact phone: 517-543-2750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 1060

Facility name: WELL 1-PUMP 2

Facility type: Well Treatment process: inhibitor, orthophosphate

Treatment objective: corrosion control

MOSS, KEITH Contact name: Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 Eaton State: MI County:

CHARLOTTE, CITY OF Pws name:

Population Served: 8089 3122 Pwssvcconn:

PWS Source: Groundwater Pws type: **CWS**

Contact zip:

Status: Active Owner type: Local_Govt

1061 Facility id: Facility name: WELL 3

Facility type: Well Treatment process: inhibitor, orthophosphate

Treatment objective: corrosion control Contact name: MOSS, KEITH Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue Contact address2: Not Reported Contact city: CHARLOTTE

Contact zip: 48813 Pwsid: MI0001340 Epa region: 05

State: County: Eaton CHARLOTTE, CITY OF Pws name:

Population Served: 8089 Pwssvcconn: 3122 PWS Source: Groundwater

CWS Pws type: Status: Active Owner type: Local_Govt

Facility id: 1062

WELL 5 Facility name: Facility type: Well Treatment process: inhibitor, orthophosphate Treatment objective: corrosion control

Contact name: MOSS, KEITH Original name: MOSS, KEITH Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE

05 Pwsid: MI0001340 Epa region: State: Eaton MI County:

48813

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122 PWS Source: Groundwater

CWS Pws type: Status: Active Owner type: Local_Govt

Facility id: 3960

DISTRIBUTION SYSTEM Facility name: Facility type: Distribution_system_zone Treatment process: inhibitor, orthophosphate

Treatment objective: corrosion control

Contact address1:

Pwssvcconn:

Owner type:

Owner type:

Treatment process:

Contact address1:

Pwssvcconn:

Owner type:

Treatment process:

MOSS, KEITH Contact name: Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address2: Not Reported

Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 Eaton State: MI County:

CHARLOTTE, CITY OF Pws name:

Population Served: 8089

PWS Source: Groundwater **CWS**

Pws type: Status: Active

5597 Facility id:

WELLHOUSE NO. 1 Facility name:

Facility type: Treatment_plant Treatment objective: corrosion control

Contact name: MOSS, KEITH Original name: MOSS, KEITH Contact phone: 517-543-2750

Contact address1:

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: County: Eaton

CHARLOTTE, CITY OF Pws name:

Population Served: 8089 Pwssvcconn:

PWS Source: Groundwater

CWS Pws type:

Status: Active

Facility id: 5598

WELLHOUSE NO.3 Facility name: Facility type: Treatment_plant

Treatment objective: corrosion control Contact name: MOSS, KEITH Original name: MOSS, KEITH

Contact phone: 517-543-2750

Contact address2: Not Reported Contact city: CHARLOTTE

Contact zip: 48813

05 Pwsid: MI0001340 Epa region: State: Eaton MI County:

Pws name: CHARLOTTE, CITY OF

8089 Population Served:

PWS Source: Groundwater

CWS Pws type:

Status: Active

Facility id: 1061 Facility name: WELL 3

Facility type: Well

Treatment process: gaseous chlorination, pre

Treatment objective: disinfection

111 East Lawrence Avenue

3122

3122

3122

Local_Govt

Local_Govt

inhibitor, orthophosphate

111 East Lawrence Avenue

Local_Govt

inhibitor, orthophosphate

111 East Lawrence Avenue

MOSS, KEITH Contact name: Original name: MOSS, KEITH Contact phone: 517-543-2750

Contact address2: Not Reported Contact city: CHARLOTTE

Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI

CHARLOTTE, CITY OF Pws name:

Population Served: 8089

PWS Source: Groundwater

Pws type: **CWS**

Status: Active

1062 Facility id:

WELL 5 Facility name: Facility type: Well

Treatment objective: disinfection MOSS, KEITH Contact name: Original name: MOSS, KEITH

Contact phone: 517-543-2750

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: State:

CHARLOTTE, CITY OF Pws name:

Population Served: 8089

PWS Source: Groundwater

CWS Pws type: Status: Active

Facility id: 3960

DISTRIBUTION SYSTEM Facility name: Facility type:

Distribution_system_zone Treatment objective: disinfection

Contact name: MOSS, KEITH Original name: MOSS, KEITH Contact phone: 517-543-2750

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340

State: MI

Pws name: CHARLOTTE, CITY OF

Population Served: 8089

PWS Source: Groundwater

Pws type: **CWS** Status: Active

Facility id: 5597

WELLHOUSE NO. 1 Facility name:

Treatment_plant Facility type:

Treatment objective: disinfection Contact address1: 111 East Lawrence Avenue

Eaton County:

3122 Pwssvcconn:

Owner type: Local_Govt

Treatment process: gaseous chlorination, pre

Contact address1: 111 East Lawrence Avenue

05 County: Eaton

Pwssvcconn: 3122

Owner type: Local_Govt

Treatment process: gaseous chlorination, pre

Contact address1: 111 East Lawrence Avenue

05 Epa region:

Eaton County:

Pwssvcconn: 3122

Owner type: Local_Govt

Treatment process: gaseous chlorination, pre

Contact name: MOSS, KEITH Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater
Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 5598

Facility name: WELLHOUSE NO.3
Facility type: Treatment_plant Treatment process: gaseous chlorination, pre

Treatment objective: disinfection
Contact name: MOSS, KEITH
Original name: MOSS, KEITH
Contact phone: 517-543-2750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater
Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 5602

Facility name: WELLHOUSE NO.5

Facility type: Treatment_plant Treatment process: gaseous chlorination, pre

Treatment objective: disinfection
Contact name: MOSS, KEITH
Original name: MOSS, KEITH
Contact phone: 517-543-2750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid:MI0001340Epa region:05State:MICounty:Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 6768

Facility name: MCLURE AND SHELDON TANK

Facility type: Storage Treatment process: gaseous chlorination, pre

Treatment objective: disinfection

Contact name: MOSS, KEITH Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: Owner type: Local_Govt

Facility id: 8989
Facility name: SHEPPARD STREET STORAGE TANK

Facility type: Storage Treatment process: gaseous chlorination, pre

Treatment objective: disinfection
Contact name: MOSS, KEITH
Original name: MOSS, KEITH
Contact phone: 517-543-2750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid:MI0001340Epa region:05State:MICounty:Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater
Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 1059

Facility name: WELL 1 - PUMP 1

Facility type: Well Treatment process: fluoridation

Treatment objective: other

Contact name: MOSS, KEITH
Original name: MOSS, KEITH
Contact phone: 517-543-2750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 1060

Facility name: WELL 1-PUMP 2

Facility type: Well Treatment process: fluoridation

Treatment objective: other

MOSS, KEITH Contact name: Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 Eaton State: MI County:

CHARLOTTE, CITY OF Pws name:

Population Served: 8089 3122 Pwssvcconn:

PWS Source: Groundwater Pws type: **CWS**

Status: Active

Owner type: Local_Govt Facility id: 1061

Facility name: WELL 3

Facility type: Well Treatment process: fluoridation Treatment objective: other

MOSS, KEITH Contact name: Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: County: Eaton

CHARLOTTE, CITY OF Pws name:

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

CWS Pws type:

Status: Active Owner type: Local_Govt

Facility id: 1062 Facility name: WELL 5

Facility type: Well Treatment process: fluoridation

Treatment objective: other Contact name: MOSS, KEITH

Original name: MOSS, KEITH Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

05 Pwsid: MI0001340 Epa region: State: Eaton MI County:

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater **CWS** Pws type:

Status: Active Owner type: Local_Govt

Facility id: 3960

DISTRIBUTION SYSTEM Facility name: Facility type: Distribution_system_zone Treatment process: fluoridation

Treatment objective:

Contact address1:

Pwssvcconn:

Owner type:

Treatment process:

Contact address1:

MOSS, KEITH Contact name: Original name: MOSS, KEITH

Contact phone: 517-543-2750

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 Eaton State: MI County:

CHARLOTTE, CITY OF Pws name:

Population Served: 8089

PWS Source: Groundwater Pws type: **CWS**

Status: Active

Facility id: 5597

WELLHOUSE NO. 1 Facility name:

Facility type: Treatment_plant

Treatment objective: other Contact name: MOSS, KEITH Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: County: Eaton

CHARLOTTE, CITY OF Pws name:

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater **CWS** Pws type:

Status: Active Owner type: Local_Govt

5598 Facility id:

Facility name: WELLHOUSE NO.3

Facility type: Treatment_plant Treatment process:

Treatment objective: other Contact name: MOSS, KEITH

Original name: MOSS, KEITH Contact phone: 517-543-2750

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

05 Pwsid: MI0001340 Epa region: State: Eaton MI County:

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater **CWS** Pws type:

Status: Active Facility id: 5602

Owner type: Local_Govt

WELLHOUSE NO.5 Facility name:

Facility type: Treatment_plant Treatment process: fluoridation

Treatment objective: other 111 East Lawrence Avenue

3122

Local_Govt

fluoridation

fluoridation

111 East Lawrence Avenue

Contact name: MOSS, KEITH Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 6768
Facility name: MCLURE AND SHELDON TANK

Facility type: Storage Treatment process: fluoridation

Treatment objective: other

Contact name: MOSS, KEITH Original name: MOSS, KEITH

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid:MI0001340Epa region:05State:MICounty:Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater
Pws type: CWS

Status: Active Owner type:

Facility id: 8989

Facility name: SHEPPARD STREET STORAGE TANK

Facility type: Storage Treatment process: fluoridation

Treatment objective: other

Contact name: MOSS, KEITH
Original name: MOSS, KEITH
Contact phone: 517-543-2750
Contact address?: Net Penerted

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater

Pws type: CWS

Status: Owner type: Local_Govt

Facility id: 1059

Facility name: WELL 1 - PUMP 1

Facility type: Well Treatment process: inhibitor, orthophosphate

Treatment objective: corrosion control

Local_Govt

Contact name: MOSS, KEITH
Original name: MOSS, KEITH
Contact phases: FAZ 542 9750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid:MI0001340Epa region:05State:MICounty:Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater
Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 1060 Facility name: WELL 1-PUMP 2

Facility type: Well Treatment process: inhibitor, orthophosphate

Treatment objective: corrosion control Contact name: MOSS, KEITH Original name: MOSS, KEITH Contact phone: 517-543-2750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

Pwsid: MI0001340 Epa region: 05 State: MI County: Eaton

Pws name: CHARLOTTE, CITY OF

Population Served: 8089 Pwssvcconn: 3122

PWS Source: Groundwater
Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 1061 Facility name: WELL 3

Facility type: Well Treatment process: inhibitor, orthophosphate

Treatment objective: corrosion control Contact name: MOSS, KEITH Original name: MOSS, KEITH Contact phone: 517-543-2750

Contact phone: 517-543-2750 Contact address1: 111 East Lawrence Avenue Contact address2: Not Reported

Contact address2: Not Reported Contact city: CHARLOTTE Contact zip: 48813

PWS ID: MI0001340

Date Initiated: Not Reported Date Deactivated: Not Reported

PWS Name: CHARLOTTE

CITY OF CHARLOTTE 111 E. LAWRENCE CHARLOTTE, MI 48813

Addressee / Facility: Not Reported

Facility Latitude: 42 33 48 Facility Longitude: 084 50 08

City Served: Not Reported

Treatment Class: Mixed (treated and untreated) Population: 8083

Violations information not reported.

Map ID
Direction
Distance

Database EDR ID Number Elevation MI WELLS MI20060725 1/2 - 1 Mile Higher Wellid: 23000002577 Import id: 23020418004 Township: Eaton County: Eaton 02N 04W Town range: 18 Section: JIM DEYOUNG Owner name: Well addr: 947 HENRY ST Well depth: 60 Well type: Household 0 Wssn: Well num: Not Reported Driller id: 107 1985-12-22 00:00:00.000 **PVC Plastic** Const date: Case type: 5 Case dia: Case depth: 40 Screen frm: 0 Screen to: 0 Swl: 6 Test depth: 0 0 Test hours: Test rate: 0 Test methd: Unknown Grouted: Pmp cpcity: 10 42.5588316065 Latitude: Longitude: -84.8210035773 Methd coll: L1 Elevation: Elev methd: Topographoc Map Interpolation Depth flag: Not Reported Elev flag: Not Reported Not Reported Swl flag: Elev dem: 902 Elev dif: Elev miv: 895 Aq code: Rock Well Aq flag: Not Reported Pct aq: 97 Pct aq d: 89 Pct aq r: 100 Pct maq d: Pct maq: 0 0 Pct mag r: 0 Pct cm: 0 Pct cm d: 0 Pct cm r: 0 Pct pcm: 0 Pct pcm d: 0 3 Pct pcm r: 0 Pct na: 0 Pct na d: 11 Pct na r: Not Reported Pct flag: Rock top: 18 D r type: AQ / AQ Spc cpcity: 0 A thicknes: A pct aq: 0 A pct maq: 0 0 A pct pcm: 0 0 A pct cm: A pct na: 0 A thickns2: 0 A pct aq2: 0 A pct maq2: 0 A pct pcm2: 0 0 A pct cm2: A pct na2: F A hit swl: A hit top: Τ A hit rock: A sc lith1: Not Reported A sc Imod1: Not Reported A sc Imaq1: Not Reported A sc lpct1: A sc lith2: Not Reported Not Reported A sc Imod2: Not Reported A sc Imaq2: A sc lpct2: 0 Pct aq 1: 0 Pct mag 1: 0 Pct cm 1: 0 Pct pcm 1: 0 Pct na 1: 0

Pct aq 2: 0 Pct cm 2: 0 Pct na 2: 0 Pct maq 3: 0 Pct pcm 3: 0 Pct aq 4: 0 Pct cm 4: 0 Pct na 4: 0 Pct maq 5: 0 Pct pcm 5: 0 0 Pct aq 6: Pct cm 6: 0 Pct na 6: 0 Pct maq 7: 0 Pct pcm 7: 0 Pct aq 8: 0 Pct cm 8: 0 Pct na 8: 0 Pct maq 9: 0 Pct pcm 9: 0 Pct aq 10: 0 Pct cm 10: 0 Pct na 10: 0 Pct maq 11: 0 Pct pcm 11: 0 Pct aq 12: 0 Pct cm 12: 0 Pct na 12: 0 Pct maq 13: 0 0 Pct pcm 13: Within sec: Υ Aq code 1: Not Reported Hit swl: Not Reported

Pct maq 2: 0 Pct pcm 2: 0 0 Pct aq 3: Pct cm 3: 0 Pct na 3: 0 0 Pct maq 4: Pct pcm 4: 0 Pct aq 5: 0 Pct cm 5: 0 0 Pct na 5: Pct maq 6: 0 Pct pcm 6: 0 Pct aq 7: 0 0 Pct cm 7: 0 Pct na 7: Pct maq 8: 0 Pct pcm 8: 0 Pct aq 9: 0 Pct cm 9: 0 Pct na 9: 0 Pct maq 10: 0 Pct pcm 10: 0 0 Pct aq 11: Pct cm 11: 0 0 Pct na 11: Pct mag 12: 0 0 Pct pcm 12: Pct aq 13: 0 Pct cm 13: 0 Pct na 13: 0 Loc match:

3 SW MI WELLS MI20061010 1/2 - 1 Mile Lower

Driller id:

Wellid: 2300003046
County: Eaton
Town range: 02N 05W
Owner name: VIRGIL DAVIS
Well addr: Not Reported

Well depth: 95

Athk2:

T2:

D50plek:

Horiz Conduct:

Vert Conduct:

Well type: Household

Wssn: 0

Well num: Not Reported
Const date: 1977-06-29 00:00:00.000

0

0

0

0

0

Case dia: 5

Import id: 23020513004
Township: Carmel
Section: 13

Case type: PVC Plastic

1077

Case depth:	72		
Screen frm:	0		
Screen to:	0		
Swl:	20		
Test depth:	95		
Test hours:	1		
Test rate:	50	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	10
Latitude:		Filip opolity.	10
	42.5568321142		
Longitude: Methd coll:	-84.8415016416 L1		
	902		
Elevation:		Donth floor	Not Donortod
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported	Flandif.	0
Elev dem:	899	Elev dif:	3
Elev miv:	902	Aq code:	Unknown Lithology
Aq flag:	Not Reported	Pct aq:	0
Pct aq d:	0	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-3
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Not Reported
A sc Imod1:	Not Reported	A sc Imaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc Imaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	100
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	100	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	100
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
	-	. 5 5.	-

Pct aq 10: 0 Pct maq 10: 0 Pct cm 10: 0 Pct pcm 10: 0 0 Pct na 10: 0 Pct aq 11: 0 0 Pct maq 11: Pct cm 11: Pct pcm 11: 0 Pct na 11: 0 Pct aq 12: 0 0 Pct maq 12: Pct pcm 12: Pct cm 12: 0 0 Pct na 12: 0 Pct aq 13: 0 Pct maq 13: 0 Pct cm 13: 0 Pct na 13: Pct pcm 13: 0 0 Υ Within sec: Υ Loc match:

Aq code 1: Not Reported Hit swl: Not Reported

 Athk2:
 0

 Horiz Conduct:
 0

 Vert Conduct:
 0

 T2:
 0

 D50plek:
 0

Lower

4 SE MI WELLS MI20063314 1/2 - 1 Mile

Import id:

Township:

Section:

 Wellid:
 23000007665

 County:
 Eaton

 Town range:
 02N 04W

Owner name: Charlotte Assembly of God Well addr: 1072 E Clinton Trail

Well addr: 1072 Well depth: 69

Well type: Household

Wssn: 0

Well num: Not Reported Driller id: 2287

Const date: 2000-10-06 00:00:00.000 Case type: PVC Plastic

 Case dia:
 5

 Case depth:
 38

 Screen frm:
 0

 Screen to:
 0

 Swl:
 18

 Test depth:
 0

 Test hours:
 0

Test rate: 25 Test methd: Air Grouted: 1 Pmp cpcity: 10

Latitude: 42.5531054 Longitude: -84.8193084

Methd coll: Address Matching-House Number

Elevation: 0

Elev methd: DEM30M Depth flag: Not Reported

Elev flag: Elevation < DEMmin or Elevation > DEMmax

Swl flag: Not Reported

Elev dem: 915 915 Elev dif: Rock Well Elev miv: 915 Aq code: Aq flag: Not Reported Pct aq: 57 Pct aq d: 0 Pct aq r: 100 Pct maq: 0 Pct maq d: 0 0 Pct maq r: Pct cm: 4

Not Reported

Eaton

20

Pct cm d:	10	Pct cm r:	0
Pct pcm:	39	Pct pcm d:	90
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	30
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Not Reported
A sc Imod1:	Not Reported	A sc Imaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc Imod2:	Not Reported	A sc Imaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct mag 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct mag 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Υ	Loc match:	Υ
Aq code 1:	R		
Hit swl:	F		
Athk2:	0		
Horiz Conduct:	.00703		
Vert Conduct:	.00033		
T2:	.0703		
D50plek:	.00249		
F			

Мар	ID
Direc	ction
Dista	nce

Distance Elevation			Database	EDR ID Numbe
5 West 1/2 - 1 Mile Higher			MI WELLS	MI20061011
Wellid:	23000003047	Import id:	23020513005	
County:	Eaton	Township:	Carmel	
Town range:	02N 05W	Section:	13	
Owner name:	STEVEN THOMPSON			
Well addr:	821 W FOOTE ST			
Well depth:	100			
Well type:	Household			
Wssn:	0			
Well num:	Not Reported	Driller id:	107	
Const date:	1993-01-25 00:00:00.000	Case type:	PVC Plastic	
Case dia:	5			
Case depth:	63			
Screen frm:	0			
Screen to:	0			
Swl:	45			
Test depth:	0			
Test hours:	0			
Test rate:	0	Test methd:	Unknown	
Grouted:	1	Pmp cpcity:	12	
Latitude:	42.5668136364	i inp opolty.	12	
Longitude:	-84.8499443104			
Methd coll:	Interpolation-Map			
Elevation:	943			
Elev methd:		Donth floa:	Not Paparted	
	Topographoc Map Interpolation	Depth flag:	Not Reported	
Elev flag:	Not Reported			
Swl flag:	Not Reported	Flace diffe	2	
Elev dem: Elev miv:	941 943	Elev dif:	2	
		Aq code:	Unknown Lithology	
Aq flag:	Not Reported	Pct aq:	0	
Pct aq d:	0	Pct aq r:	0	
Pct maq:	0	Pct maq d:	0	
Pct maq r:	0	Pct cm:	0	
Pct cm d:	0	Pct cm r:	0	
Pct pcm:	0	Pct pcm d:	0	
Pct pcm r:	0	Pct na:	0	
Pct na d:	0	Pct na r:	0	
Pct flag:	Not Reported	Rock top:	-3	
D r type:	Not Reported	Spc cpcity:	0	
A thicknes:	0	A pct aq:	0	
A pct maq:	0	A pct pcm:	0	
A pct cm:	0	A pct na:	0	
A thickns2:	0	A pct aq2:	0	
A pct maq2:	0	A pct pcm2:	0	
A pct cm2:	0	A pct na2:	0	
A hit swl:	F	A hit top:	F	
A hit rock:	F	A sc lith1:	Not Reported	
A sc Imod1:	Not Reported	A sc Imaq1:	Not Reported	
A sc lpct1:	0	A sc lith2:	Not Reported	
A sc Imod2:	Not Reported	A sc Imaq2:	Not Reported	
A sc lpct2:	0	Pct aq 1:	0	
Pct maq 1:	0	Pct cm 1:	0	
Pct pcm 1:	0	Pct na 1:	100	

Pct aq 2:	0
Pct cm 2:	0
Pct na 2:	100
Pct maq 3:	0
Pct pcm 3:	0
Pct aq 4:	0
Pct cm 4:	0
Pct na 4:	100
Pct maq 5:	0
Pct pcm 5:	0
Pct aq 6:	0
Pct cm 6:	0
Pct na 6:	0
Pct maq 7:	0
Pct pcm 7:	0
Pct aq 8:	0
Pct cm 8:	0
Pct na 8:	0
Pct maq 9:	0
Pct pcm 9:	0
Pct aq 10:	0
Pct cm 10:	0
Pct na 10:	0
Pct maq 11:	0
Pct pcm 11:	0
Pct aq 12:	0
Pct cm 12:	0
Pct na 12:	0
Pct maq 13:	0
Pct pcm 13:	0
Within sec:	Υ
Aq code 1:	Not Reported

Not Reported

0

0

0

0

0

Hit swl:

Horiz Conduct:

Vert Conduct:

Athk2:

T2:

D50plek:

Pct maq 2:
Pct pcm 2:
Pct aq 3:
Pct cm 3:
Pct na 3:
Pct maq 4:
Pct pcm 4:
Pct aq 5:
Pct cm 5:
Pct na 5:
Pct maq 6:
Pct pcm 6:
Pct aq 7:
Pct cm 7:
Pct na 7:
Pct maq 8:
Pct pcm 8:
Pct aq 9:
Pct cm 9:
Pct na 9:
Pct maq 10:
Pct pcm 10:
Pct aq 11:
Pct cm 11:
Pct na 11:
Pct maq 12:
Pct pcm 12:
Pct aq 13:
Pct cm 13:
Pct na 13:
Loc match:

0
0
0
0
100
0
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100
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0
Υ

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Test Type	Zip	Floor	Stop Date	Can 1 Res pCi/L	Can 1 Error	Can 2 Res pCi/L	Can 2 Error
	_						
Random	48813	0	2/19/88	1.8	11.4%		
Random	48813	0	2/17/88	3.1	7.4%		
Random	48813	0	1/10/88	5.9	4.3%		
Random	48813	1	12/31/87	8.9	4.3%		
Random	48813	0	12/1/87	13.8	5.8%		
Geographic	48813		4/8/88	3.2	9.7%		

State Database: MI Radon

Radon Test Results

Zip	Less than sign	Pci/L
_		
48813		7.30
48813		1.50
48813		4.30
48813		2.30
48813		3.90
48813		3.90
48813		3.30
48813		2.50
48813		5.40
48813		1.40
48813		3.20
48813		2.60
48813		2.40
48813		2.00
48813		4.10
48813		3.10
48813		0.70
48813		3.30
48813		1.20
48813		35.30
48813		5.50
48813		3.80
48813		3.60
48813		4.10
48813		1.30
48813		4.40
48813		4.10
48813		2.40
48813		

AREA RADON INFORMATION

		11.00
48813		11.00 4.40
48813		4.40
48813		5.20
48813		23.60
48813		2.00
48813		2.20
48813		6.10
48813		0.90
48813		3.20
48813		3.40
48813		4.40
48813		4.80
48813		2.30
48813	<	0.30
48813		3.10
48813		1.50
48813		1.40
48813		1.50
48813		21.70
48813		4.60
48813		5.30
48813		4.20
48813		3.80
48813		9.40
48813		10.90
48813		5.60
48813		8.40
48813		7.50
48813		4.40
48813		4.20
48813		13.10
48813		7.50
48813		8.40
48813	<	0.30
48813		2.10
48813		0.60
48813		1.40
48813		7.70
48813		0.70
48813		0.80
48813		4.10
48813		6.80
48813		12.30
48813		8.00
48813		3.70
48813		4.10
48813		0.80
48813		2.20
48813		17.10
48813		1.50
48813		1.10
48813		0.10
48813		0.90
48813		0.30
48813		0.10
48813		

AREA RADON INFORMATION

		6.40
48813		1.20
48813		0.90
48813		1.70
48813		1.30
48813		0.20
48813		3.10
48813		6.50
48813		6.90
48813		2.30
48813		2.90
48813		14.30
48813		6.10
48813		2.00
48813		5.30
48813		2.20
48813		15.50
48813		45.80
48813		40.00
48813		5.70
48813		20.90
48813		2.00
48813		5.60
48813		3.10
48813		35.90
48813		1.60
48813		5.80
48813		2.20
48813		3.20
48813		0.80
48813		8.40
48813		
		3.10
48813		11.10
48813		4.60
48813		2.70
48813		1.10
48813		2.90
48813		4.80
48813		6.80
48813		5.00
48813		15.10
48813		3.50
48813		
		1.70
48813		1.10
48813		3.90
48813		6.40
48813	<	0.30
48813	<	0.30
48813		5.50
48813		1.00
48813		3.20
48813		0.60
48813		2.00
48813		6.00
48813		6.10
48813		2.40
48813		

AREA RADON INFORMATION

		2.80
48813		0.60
48813		0.90
48813		3.40
48813		2.70
48813		7.00
48813		3.40
48813		11.70
48813		2.70
48813		4.40
48813		4.50
48813		2.00
48813		1.70
48813		3.20
48813		6.00
48813		5.70
48813		2.90
48813		13.50
48813		4.10
48813		3.00
48813		4.00
48813		4.10
48813		1.80
48813		0.40
48813		4.30
48813		
		3.10
48813		8.70
48813		3.00
48813		4.90
48813		4.00
48813		4.50
48813		2.60
48813		3.10
48813		6.20
48813		3.90
48813		5.00
48813		6.20
48813		6.70
48813		6.30
48813		4.50
48813		4.80
48813		5.80
48813		3.90
48813		3.10
48813		2.10
48813		6.20
48813		9.70
48813	<	0.30
48813		2.40
48813		1.90
48813		7.00
48813		10.40
48813	<	0.30
48813		5.00
48813		3.20
48813		1.10
48813		

AREA RADON INFORMATION

		5.10
48813	<	0.30
48813		0.80
48813		0.70
48813		3.30
48813		4.30
48813		5.50
48813		1.00
48813		5.80
48813		8.80
48813		3.00
48813		13.20
48813		4.70
48813		9.60
48813		7.70
48813		2.00
48813	<	0.30
48813		2.30
48813		7.50
48813		2.40
48813		1.00
48813		3.90
48813		2.40
48813		6.20
48813		1.20
48813		2.90
48813		4.50
48813		2.10
48813	<	0.30
48813		12.10
48813	<	0.30
48813		6.30
48813		2.70
48813		2.30
48813		4.30

Federal EPA Radon Zone for EATON County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 48813

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	8.900 pCi/L	0%	100%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	6.150 pCi/L	50%	50%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Source: Department of Natural Resources

Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality

Telephone: 517-335-9218

OTHER STATE DATABASE INFORMATION

Michigan Oil and Gas Wells

Source: Michigan Department of Natural Resources

Locations of oil and gas wells are compiled from permit records on file at the Geological Survey Division (GSD), Michigan Department of Natural Resources.

RADON

State Database: MI Radon

Source: Department of Environmental Quality

Telephone: 517-335-9551 Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality

Telephone: 517-335-8037

These results are from test kits distributed by the local health departments and used by

Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at

private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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Tasty Twist

102 Lansing Street Charlotte, MI 48813

Inquiry Number: 2648184.3

December 01, 2009

Certified Sanborn® Map Report



Certified Sanborn® Map Report

12/01/09

Site Name: Client Name:

Tasty Twist NTH Consultants Ltd.
102 Lansing Street 41780 6 Mile Road
Charlotte, MI 48813 Northville, MI 48168

EDR Inquiry # 2648184.3 Contact: Sherry Kirkbride



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by NTH Consultants Ltd. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Tasty Twist

Address: 102 Lansing Street City, State, Zip: Charlotte, MI 48813

Cross Street:

P.O. # NA

Project: Tasty Twist

Certification # 9455-4E10-87EF

Maps Provided:

1950

1927

1918

1911



Sanborn® Library search results Certification # 9455-4E10-87EF

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

✓ Library of Congress

✓ University Publications of America

▼ EDR Private Collection

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Certified Sanborn® Map Report Enhancements for 2009

The accompanying Certified Sanborn Map Report reflects a number of enhancements that make it easier for you to review these historical maps. EDR has digitally joined together the more than one million fire insurance maps from the Sanborn Library collection so that your target property is centered, making it easier for you to review adjoining properties. Here is a list of the new features:

- · Your target property is centered on each map. You can quickly locate your target property and view adjoining properties. Plus, adjoining properties are included more often, reducing your need to refer to additional maps.
- · All maps are now displayed at a uniform scale. This makes it easier for you to view changes to the property over time.
- · We've increased coverage by adding thousands of new maps from 40 cities for years 1994-2007.
- · A new Map Key and Sheet Thumbnails let you reference sheet numbers, year and volume of original Sanborn Map panels used for this report.

For more information about the new enhancements to the Certified Sanborn Map Report, contact your EDR representative at 800-352-0050.

Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1950 Source Sheets







Volume 1, Sheet 8

Volume 1, Sheet 7

Volume 1, Sheet 9

1927 Source Sheets







Volume 1, Sheet 9

Volume 1, Sheet 8

Volume 1, Sheet 7

1918 Source Sheets







Volume 1, Sheet 10

Volume 1, Sheet 7

Volume 1, Sheet 6

1911 Source Sheets







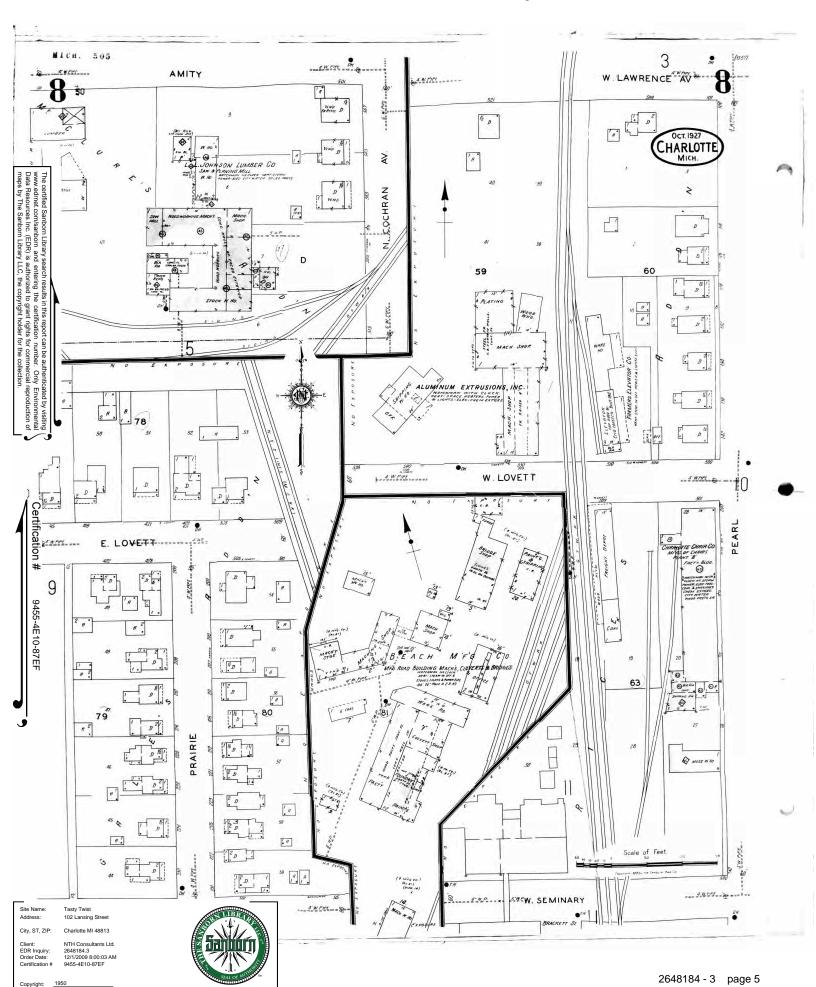


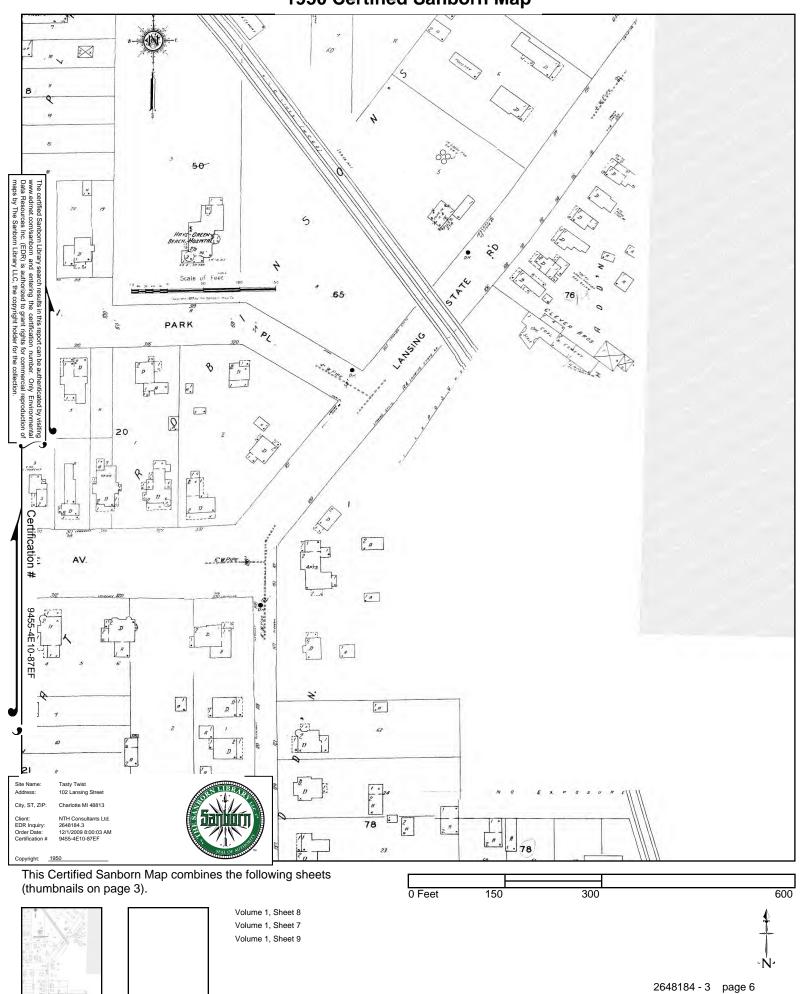
Volume 1, Sheet 15

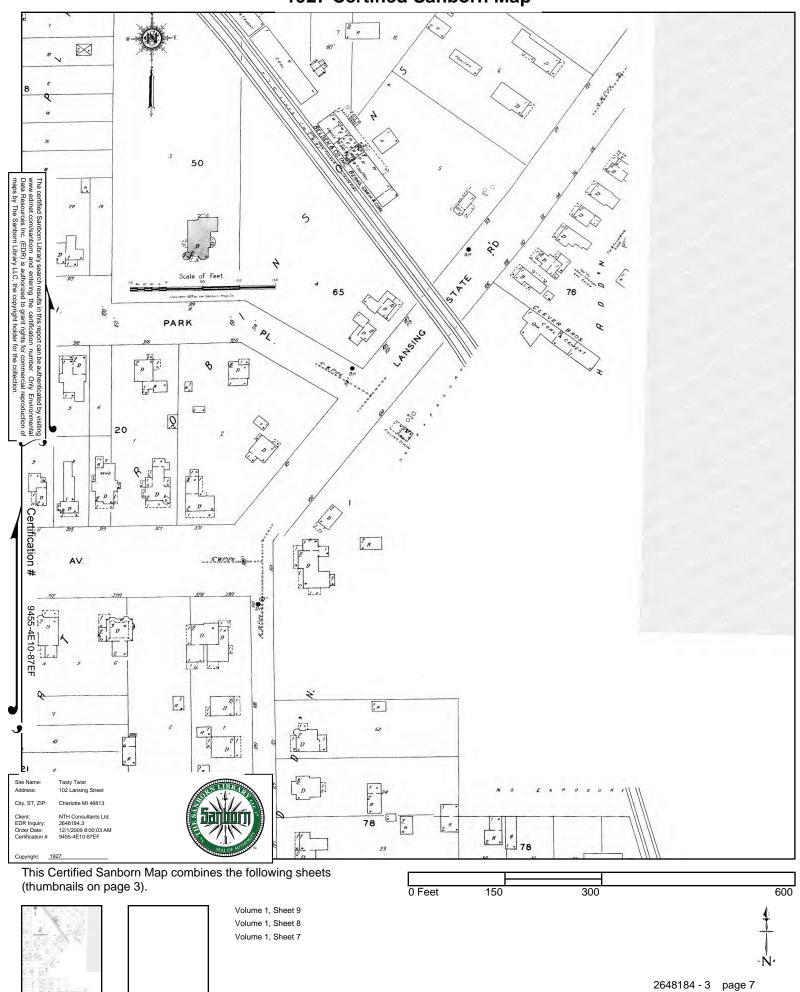
Volume 1, Sheet 8

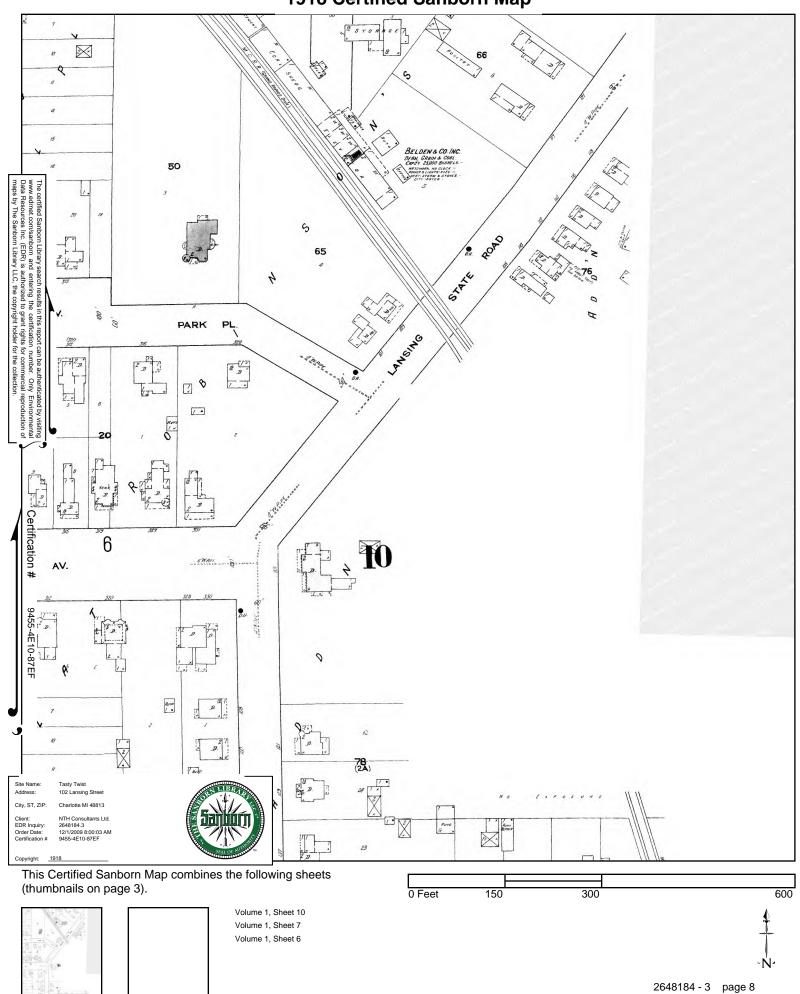
Volume 1, Sheet 7

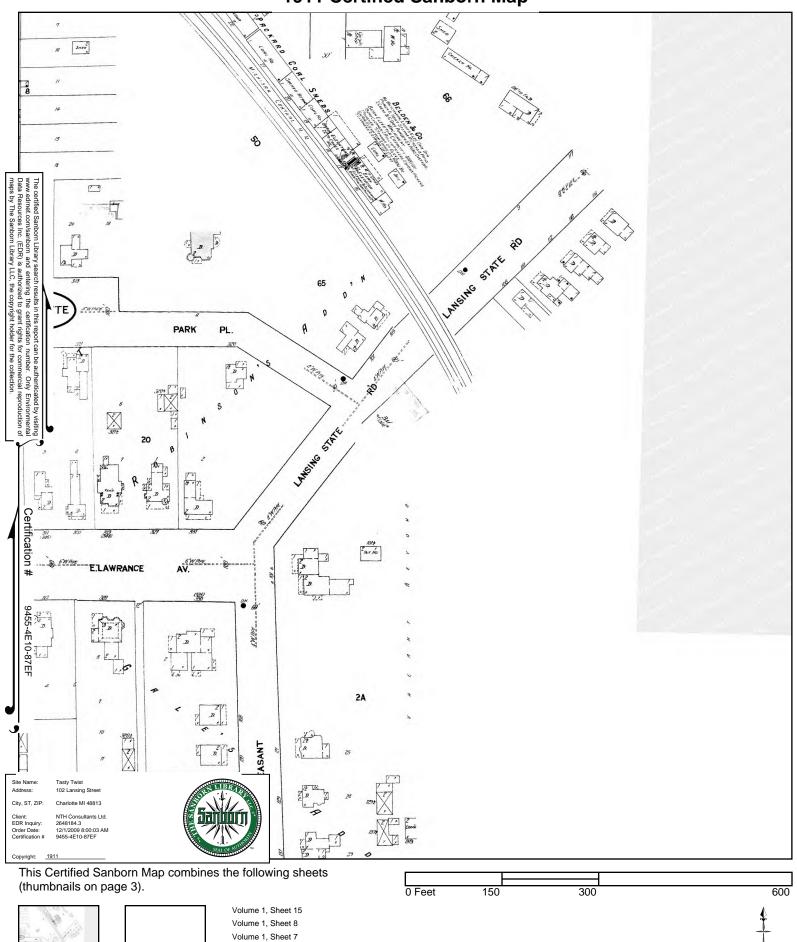
Volume 1, Sheet 4











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Volume 1, Sheet 4

Tasty Twist 102 Lansing Street Charlotte, MI 48813

Inquiry Number: 2648184.6 December 03, 2009

The EDR-City Directory Abstract



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Executive Summary

Findings

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING. WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

City Directory Report. Three important enhancements have been made to the EDR City Directory Abstract:

- 1. *Executive Summary*. The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.
- 2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.
- 3. Findings Listed by Location. Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

Options for Selecting Adjoining Properties. Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

- 1. You Select Addresses and EDR Selects Addresses. Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.
- 2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.
- 3. You Select Addresses. Use this method for research based solely on the addresses you select or enter into the system.
- 4. Hold City Directory Research Option. If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit www.edrnet.com/2009enhancements

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	Source	<u>TP</u>	<u>Adjoining</u>	Text Abstract	Source Image
2009	Bresser's Criss-Cross Directory	Χ	Χ	X	-
2004	Bresser's Criss-Cross Directory	Χ	X	X	-
1999	Bresser's Criss-Cross Directory	Χ	X	X	-
1993	Polk's City Directory	Χ	X	X	-
1988	Robinson's City Directory	Χ	X	X	-
1983	Robinson's City Directory	Χ	X	X	-
1978	Robinson's City Directory	-	X	X	-
1973	Robinson's City Directory	-	X	X	-
1968	Robinson's City Directory	Χ	X	X	-
1962	Robinson's City Directory	-	X	X	-
1957	Robinson's City Directory	-	X	X	-
1951	Polk's City Directory	-	X	X	-
1947	Polk's City Directory	-	X	X	-
1944	Polk's City Directory	-	X	X	-
1929	Polk's City Directory	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
332 East Lawrence	Client Entered	X

TARGET PROPERTY INFORMATION

ADDRESS

102 Lansing Street Charlotte, MI 48813

FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Charlotte Tasty Twist	Bresser's Criss-Cross Directory
2004	Charlotte Tasty Twist	Bresser's Criss-Cross Directory
1999	Charlotte Tasty Twist	Bresser's Criss-Cross Directory
1993	Tasty Twist	Polk's City Directory
1988	Tasty Twist	Robinson's City Directory
1983	Charlotte Tastee Freez	Robinson's City Directory
1968	Tastee Freeze	Robinson's City Directory

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

East Lawrence

332 East Lawrence

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Residential	Bresser's Criss-Cross Directory
2004	Residential	Bresser's Criss-Cross Directory
1999	Residential	Bresser's Criss-Cross Directory
1993	Residential	Polk's City Directory
1988	Residential	Robinson's City Directory
1983	Residential	Robinson's City Directory
1978	Residential	Robinson's City Directory
1973	Residential	Robinson's City Directory
1968	Residential	Robinson's City Directory
1962	Residential	Robinson's City Directory
1957	Residential	Robinson's City Directory
1951	Vacant	Polk's City Directory
1947	Residential	Polk's City Directory
1944	Residential	Polk's City Directory
1929	Residential	Polk's City Directory

Lansing Street

Lansing Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	-No Addresses Listed Before 102 Lansing Street	Bresser's Criss-Cross Directory
2004	-No Addresses Listed Before 102 Lansing Street	Bresser's Criss-Cross Directory
1999	-No Addresses Listed Before 102 Lansing Street	Bresser's Criss-Cross Directory
1993	-No Addresses Listed Before 102 Lansing Street	Polk's City Directory
1988	-No Addresses Listed Before 102 Lansing Street	Robinson's City Directory
1983	-No Addresses Listed Before 102 Lansing Street	Robinson's City Directory
1978	-No Addresses Listed Before 104 Lansing Street	Robinson's City Directory

<u>Year</u>	<u>Uses</u>	Source
1973	-No Addresses Listed Before 104 Lansing Street	Robinson's City Directory
1968	-No Addresses Listed Before 104 Lansing Street	Robinson's City Directory
1962	-No Addresses Listed Before 104 Lansing Street	Robinson's City Directory
1957	-No Addresses Listed Before 106 Lansing Street	Robinson's City Directory
1951	-No Addresses Listed Before 106 Lansing Street	Polk's City Directory
1947	-No Addresses Listed Before 106 Lansing Street	Polk's City Directory
1944	-No Addresses Listed Before 106 Lansing Street	Polk's City Directory
100 Lansi	ng Street	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
1929	Mutual Oil Co. (fill sta.)	Polk's City Directory
101 Lansi	ng Street	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
1929	Residential	Polk's City Directory
103 Lansi	ng Street	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
1929	Residential	Polk's City Directory
104 Lansi	ng Street	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
1978	Vacant Bldg.	Robinson's City Directory
1973	Tastee Freeze	Robinson's City Directory
1962	Charlotte Tastee Freeze	Robinson's City Directory
105 Lansi	ng Street	
<u>Year</u>	<u>Uses</u>	Source
1929	Belden & Co., Inc. (grain)	Polk's City Directory
	Killarney Gas Sta.	Polk's City Directory
106 Lansi	•	
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Advance Auto Parts	Bresser's Criss-Cross Directory
2004	Advance Auto Parts	Bresser's Criss-Cross Directory
		•

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1993	Spartan Tire Store (auto tire service stores)	Polk's City Directory
1988	Spartan Tire Co.	Robinson's City Directory
1983	Charlotte Tire, Inc.	Robinson's City Directory
	Tuff-Kote Dinol	Robinson's City Directory
1978	Vacant	Robinson's City Directory
1973	Tom Rutherford Body Shop	Robinson's City Directory
1968	Jenson Fell, Inc.	Robinson's City Directory
1962	C & C Auto Wash	Robinson's City Directory
1957	Charlotte Tastee Freeze	Robinson's City Directory
1951	Vacant	Polk's City Directory
1947	Clever Implement & Coal Co.	Polk's City Directory
1944	Clever Implement & Coal Co.	Polk's City Directory
1929	Clever Const. Co. (concrete contrs.)	Polk's City Directory
	Earl Clever (coal)	Polk's City Directory

108 Lansing Street

<u>Year</u>	<u>Uses</u>	Source
2004	No Return	Bresser's Criss-Cross Directory
1999	No Return	Bresser's Criss-Cross Directory
1993	Residential	Polk's City Directory
1988	No Return	Robinson's City Directory
1983	Residential	Robinson's City Directory
1978	Residential	Robinson's City Directory
1973	Residential	Robinson's City Directory
1968	Residential	Robinson's City Directory
1962	Residential	Robinson's City Directory
1957	Residential	Robinson's City Directory
1951	Residential	Polk's City Directory
1947	Residential	Polk's City Directory
1944	Residential	Polk's City Directory
1929	Residential	Polk's City Directory

109 Lansing Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Bay Petroleum Corp.	Bresser's Criss-Cross Directory
	CJ of Charlotte, Inc.	Bresser's Criss-Cross Directory
	Pioneer Petroleum	Bresser's Criss-Cross Directory
2004	Subway Sandwiches & Salads	Bresser's Criss-Cross Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	Bay Station	Bresser's Criss-Cross Directory
	Subway Sandwiches & Salads	Bresser's Criss-Cross Directory
1993	Bay Petroleum Corp. (service station)	Polk's City Directory
	Subway, Inc. (restr.)	Polk's City Directory
1988	Bay Station	Robinson's City Directory
	Computer Options, Inc.	Robinson's City Directory
1983	Radio Shack	Robinson's City Directory
	Rapid Gas Station	Robinson's City Directory
1978	Radio Shack	Robinson's City Directory
	Rapid Gas	Robinson's City Directory
1973	Lansing Street Mobil	Robinson's City Directory
1968	Lansing Street Mobil	Robinson's City Directory
1962	Cal's Mobil Service	Robinson's City Directory
	Cal's Saw Sales	Robinson's City Directory
1957	Bamber Serv. Sta.	Robinson's City Directory
1951	Bamber Texaco Service (gas sta.)	Polk's City Directory
1947	B & B Service (gas sta.)	Polk's City Directory
1944	Community Oil Co. (gas sta.)	Polk's City Directory

110 Lansing Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	No Return	Bresser's Criss-Cross Directory
1999	No Return	Bresser's Criss-Cross Directory
1993	Residential	Polk's City Directory
1988	Residential	Robinson's City Directory
1983	Residential	Robinson's City Directory
1978	Residential	Robinson's City Directory
1973	Residential	Robinson's City Directory
1968	Residential	Robinson's City Directory
1962	Residential	Robinson's City Directory
1957	Residential	Robinson's City Directory
1951	Residential	Polk's City Directory
1947	Residential	Polk's City Directory
1944	Residential	Polk's City Directory
1929	Residential	Polk's City Directory
110 1/2	Lansing Street	

110 1/2 Lansing Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1951	Vacant	Polk's City Directory

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<u>Year</u> <u>Uses</u> <u>Source</u>

1947 Residential Polk's City Directory

111 Lansing Street

<u>Year</u> <u>Uses</u> <u>Source</u>

2009 Medical Building (9 occupants) Bresser's Criss-Cross Directory

es 1 n Lansing Street

<u>Year</u> <u>Uses</u> <u>Source</u>

1929 Charlotte Public Tennis Court Polk's City Directory

TARGET PROPERTY: ADDRESS NOT LISTED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not listed in the research source.

Address ResearchedAddress Not Listed in Research Source102 Lansing Street1978, 1973, 1962, 1957, 1951, 1947, 1944, 1929

ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

Address Researched	Address Not Listed in Research Source
104 Lansing Street	1968, 1957, 1951, 1947, 1944, 1929
106 Lansing Street	1999
109 Lansing Street	1929
110 1/2 Lansing Street	1944, 1929
111 Lansing Street	2004, 1999, 1993, 1988, 1983, 1978, 1973, 1968, 1962, 1957, 1951, 1947, 1944, 1929

Tasty Twist

102 Lansing Street Charlotte, MI 48813

Inquiry Number: 2648184.4

December 01, 2009

The EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

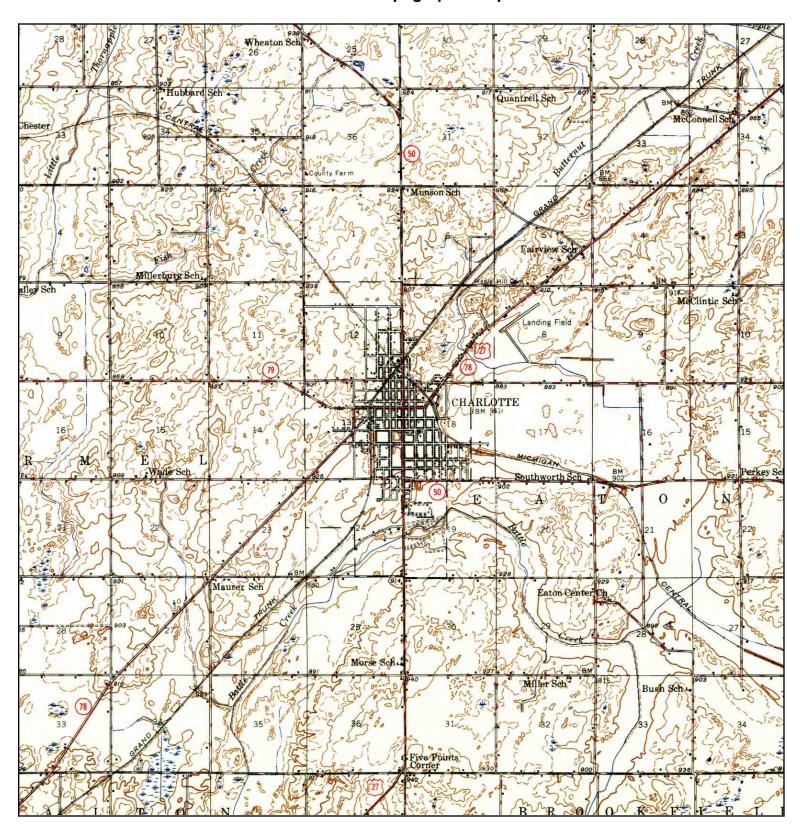
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Historical Topographic Map





TARGET QUAD

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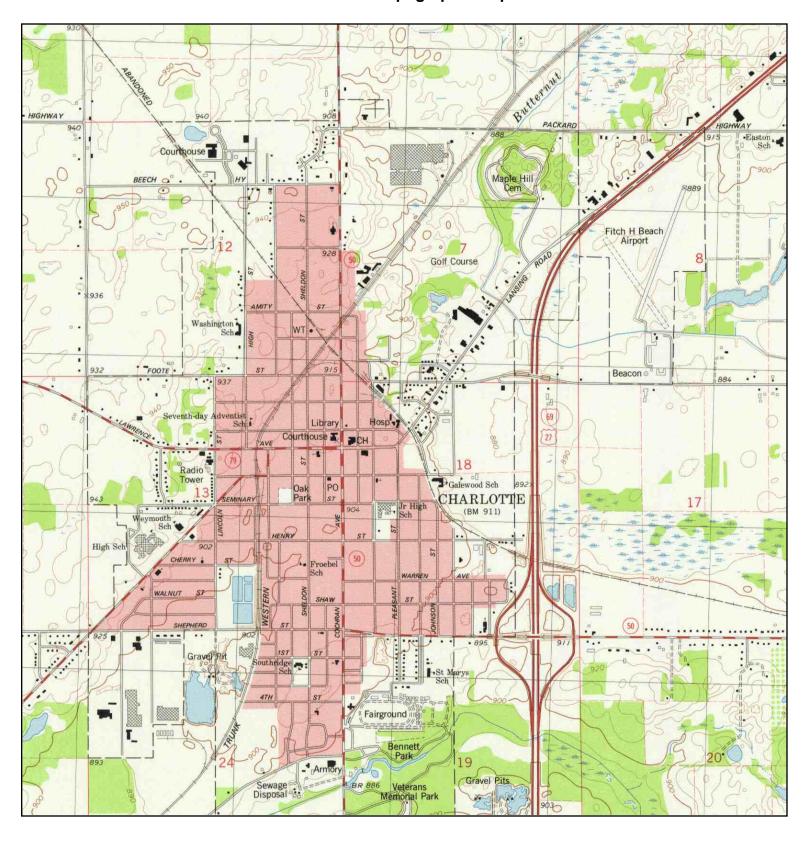
MAP YEAR: 1949

SERIES: 15 SCALE: 1:62500 SITE NAME: Tasty Twist

ADDRESS: 102 Lansing Street

Charlotte, MI 48813 LAT/LONG: 42.5645 / 84.8308 CLIENT: NTH Consultants Ltd.
CONTACT: Sherry Kirkbride
INQUIRY#: 2648184.4
RESEARCH DATE: 12/01/2009

Historical Topographic Map





TARGET QUAD

NAME: CHARLOTTE

MAP YEAR: 1980

PHOTOREVISED FROM:1964

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Tasty Twist

ADDRESS: 102 Lansing Street

Charlotte, MI 48813

42.5645 / 84.8308 LAT/LONG:

CLIENT: NTH Consultants Ltd. CONTACT: Sherry Kirkbride

INQUIRY#: 2648184.4

RESEARCH DATE: 12/01/2009

Tasty Twist

102 Lansing Street Charlotte, MI 48813

Inquiry Number: 2648184.5

December 02, 2009

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography December 02, 2009

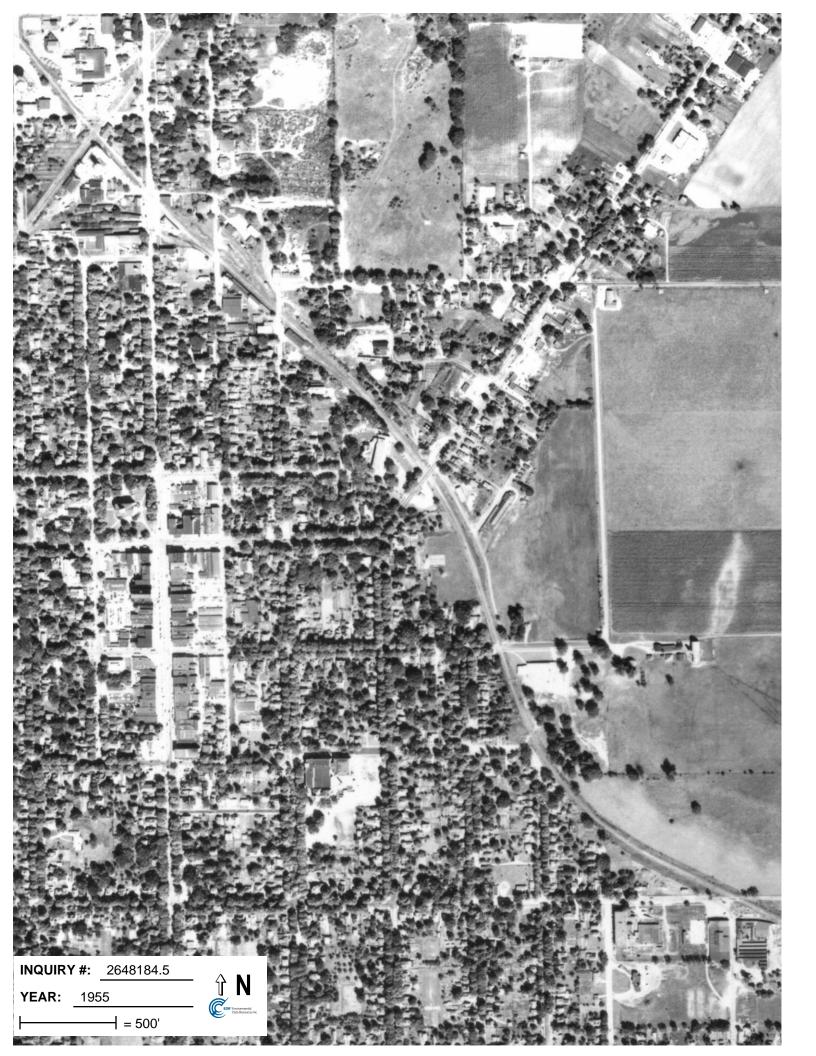
Target Property:

102 Lansing Street Charlotte, MI 48813

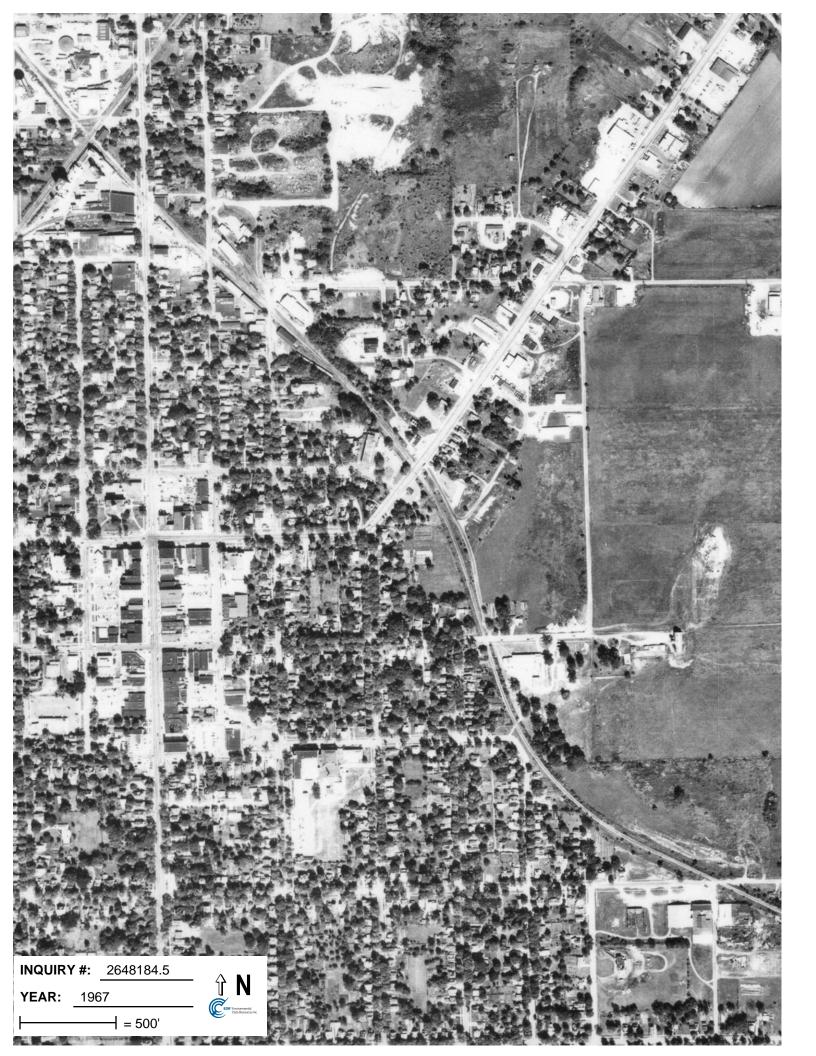
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1950	Aerial Photograph. Scale: 1"=500'	Flight Year: 1950	PMA
1955	Aerial Photograph. Scale: 1"=500'	Flight Year: 1955	CSS
1960	Aerial Photograph. Scale: 1"=500'	Flight Year: 1960	CSS
1967	Aerial Photograph. Scale: 1"=500'	Flight Year: 1967	ASCS
1974	Aerial Photograph. Scale: 1"=600'	Flight Year: 1974	ASCS
1981	Aerial Photograph. Scale: 1"=600'	Flight Year: 1981	NHAP
1985	Aerial Photograph. Scale: 1"=500'	Flight Year: 1985	Tri County Regional Planning
1992	Aerial Photograph. Scale: unknown	Flight Year: 1992	FSA
1997	Aerial Photograph. Scale: unknown	Flight Year: 1997	FSA
2006	Aerial Photograph. 1" = 604'	Flight Year: 2006	EDR







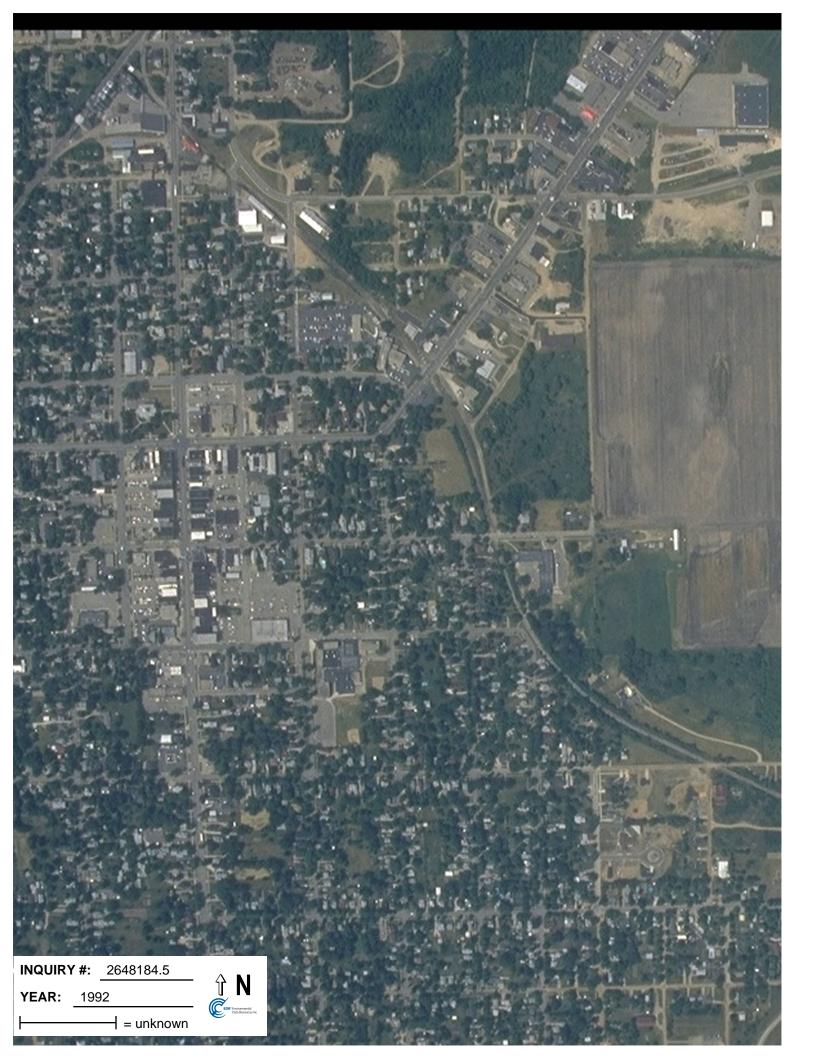


















APPENDIX D

RESUMES OF ENVIRONMENTAL PROFESSIONALS



Brian S. Trent, P.E., LEED[®]AP

Project Engineer

Expertise

Mr. Trent has ten years of experience in environmental engineering and Brownfield redevelopment. Projects have included Brownfield redevelopments, site assessments, hydrogeological investigations, underground storage tank (UST) removal and closure, risk-based contaminant exposure and due care evaluations, remediation studies, and construction management and oversight.

Education

Bachelor of Science, Civil/Environmental Engineering; University of Michigan (1998)

Experience

Brownfield Redevelopment and Property Transactions

Provided Brownfields redevelopment and property transaction services for numerous municipal and private clients.

- Provided environmental engineering services on numerous Brownfield redevelopment projects.
- Prepared Baseline Environmental Assessments and Section 7a Compliance Analyses (Due Care) Plans.
- Developed corrective action alternatives based on site conditions and land usage.
- Assisted clients with incorporating sustainable design into redevelopment projects.
- Evaluated Brownfield financial incentives for redevelopment projects.
- Prepared Act 381 Brownfield Work Plans.
- Prepared dozens of Brownfield Assessment Grant applications to U.S. EPA on behalf of municipalities.

Environmental Assessments and Investigations

Performed environmental investigations and site characterization for public and private clients, as well as regulators including the Michigan Department of Environmental Quality (MDEQ) and U.S. Environmental Protection Agency (EPA).

- Performed historical data reviews, including Phase I Environmental Site
 Assessments (ESAs), for insight on potential hazards and sources of contamination
 prior to site investigation.
- Performed investigation design and planning including project work plans with detailed scope of work to address project objectives.
- Prepared U.S. EPA Quality Assurance Project Plans (QAPPs).
- Conducted environmental investigations including drilling test borings, earthprobes, and installing monitoring wells to determine the nature and extent of contamination.
- Collected soil, groundwater, surface water, and sediment samples for testing.
- Monitored geophysical surveys to identify potential buried tanks, drums, utility lines, and other subsurface anomalies that may represent a source and/or preferential pathway for contaminant migration.
- Interpreted subsurface hydrogeology with respect to contaminant fate and transport.
- Performed groundwater fate and transport modeling to predict future migration of contaminant plumes.
- Developed Mixing Zone Determination Requests to evaluate whether contaminants were migrating into adjacent surface waters at unacceptable concentrations.
- Performed Risk-Based Corrective Action (RBCA) evaluations to determine cleanup criteria based on site characteristics and land use.



Brian S. Trent, P.E., LEED®AP

Remediation Studies and Site Cleanup

Performed feasibility studies to evaluate remediation alternatives based on site conditions and current or proposed land usage, and assisted with design and implementation of remediation programs.

- Assisted with remediation efforts at numerous leaking underground storage tank sites, including sites where non-aqueous phase liquids (NAPLs) were present.
- Assisted with feasibility analysis, design, and oversight of remediation programs
 that involved soil excavation and disposal, application of oxygen releasing
 compounds to enhance natural biodegradation, vacuum-enhanced fluid recovery,
 and soil-vapor extraction systems.

Underground Storage Tanks

Provided UST removal and closure services at over 50 sites for state, municipal, and private clients.

- Prepared Initial Assessment, Final Assessment, and Closure Reports in accordance with current regulatory requirements.
- Monitored UST removal and remediation activities.
- Designed, coordinated, and performed subsurface investigations to characterize the extent of petroleum contamination from leaking USTs.
- Assisted with evaluation of corrective action plans, including free product abatement.

Waste Removal and Demolition

Performed pre-demolition surveys, prepared specifications, and provided construction management and monitoring on waste removal and demolition projects.

- Performed pre-demolition surveys to identify waste materials and environmental concerns in abandoned commercial and industrial buildings.
- Assessed and inventoried waste materials and equipment prior to demolition, such as those containing asbestos, lead, mercury, and polychlorinated biphenyls (PCBs), as well as abandoned drums/containers and other potential site hazards.
- Developed waste removal and demolition specifications.
- Provided bidding support and contractor procurement.
- Provided construction management during waste removal and demolition.
- Prepared construction reports to document waste removal and demolition.

Professional Licenses

Licensed Professional Engineer - State of Michigan

Certifications and Training

- Leadership in Energy and Environmental Design (LEED) Accredited Professional
- ASFE Fundamentals of Professional Practice (2008)
- 40-hour HAZWOPER Training and Annual 8-hour Refreshers
- Confined Space Entry Training
- MDEQ Cleanup Criteria Training (2007)
- ASTM Training Course: Risk-Based Corrective Action Applied at Petroleum Release Sites (2005)
- Free Product Characterization and Remediation Seminar, MDEQ
- Managing Hazardous Building Materials, MDEQ



Senior Vice President

Expertise

Mr. Smits has over 19 years of experience in environmental science and engineering, from performing fieldwork, design and construction oversight through managing projects, contracts and clients. His project work includes investigation and characterization of soil and groundwater at contaminated sites, feasibility studies, risk assessments, Brownfield redevelopment, site assessments for proposed real estate acquisitions, underground and aboveground storage tank removal and replacement, interim response measures, design of soil and groundwater remediation programs, and site closure reporting.

Education

Master of Science, Geotechnical Engineering; University of Michigan (1988) Bachelor of Science, Civil Engineering; Calvin College (1987)

Experience

Brownfield Redevelopment and Property Transactions Project Manager - Community and Developer Services

Directed and managed project teams performing Brownfield's redevelopment and property transaction services for numerous municipal and private clients. Services included:

- •Assisted communities and developers in grant writing, completing required incentive applications, and Brownfield work plans needed to secure incentives.
- Provided technical assistance to communities establishing tax increment financing authorities such as Downtown Development Authorities, Local Development Finance Authorities, and Brownfield Redevelopment Authorities.
- •Presented technical program and incentive overviews at economic development events, Brownfield workshops, and for elected officials and appointed boards.
- •Provided environmental engineering services under multiple EPA Brownfield Assessment Grants and Cleanup Grants.
- •Prepared Act 381 Brownfield Work Plans.
- Prepared Baseline Environmental Assessments and Section 7a Compliance Analyses (Due Care) Plans.
- •Developed corrective action alternatives based on site conditions and proposed land usage.

Project Manager – Site Assessment

Supervised and directed project teams performing environmental investigations and site characterization for public and private clients, as well as regulators including the Michigan Department of Environmental Quality (MDEQ) and U.S. Environmental Protection Agency (EPA). Services included:

- •Performed historical data reviews, including Phase I Environmental Site Assessments (ESAs), for insight on potential hazards and sources of contamination prior to site investigation.
- Performed investigation design and planning including project work plans with detailed scope of work to address project objectives.
 Prepared Quality Assurance Project Plans (QAPPs) in accordance with EPA guidelines



Brownfield Redevelopment and Property Transactions (cont'd) Project Manager – Site Assessment (cont'd)

- •Conducted environmental investigations including drilling test borings, earthprobes, and installing monitoring wells to determine the nature and extent of subsurface contamination.
- •Collected soil, groundwater, surface water, and sediment samples for laboratory testing.
- •Collected groundwater and surface water samples for low-level mercury analysis.
- Monitored geophysical surveys to identify potential buried tanks, drums, utility lines, and other subsurface anomalies that may represent a source and/or preferential pathway for contaminant migration.
- •Interpreted subsurface hydrogeology with respect to contaminant fate and transport.
- •Performed groundwater fate and transport modeling to predict future migration of contaminant plumes.
- Developed Mixing Zone Determination Requests to evaluate whether contaminants were migrating into adjacent surface waters at unacceptable concentrations.
- Performed Risk-Based Corrective Action (RBCA) evaluations to determine cleanup criteria based on site characteristics and land use.

Project Manager – Demolition

Lead project teams in performing pre-demolition surveys, preparing specifications, and providing construction management and monitoring on waste removal and demolition projects. Services included:

- Performed pre-demolition surveys to identify waste materials and environmental concerns in abandoned commercial and industrial buildings in the City of Detroit.
- Assessed and inventoried waste materials and equipment that posed risks during demolition such as those containing asbestos, lead, mercury, and polychlorinated biphenyls (PCBs), as well as abandoned drums/containers and other potential site hazards.
- •Developed waste removal and demolition specifications.
- •Provided bidding support and trade contractor procurement.
- •Provided construction management during waste removal and demolitions.
- Prepared construction reports to document waste removal and demolition activities.

Project Engineer – Marina Redevelopment

Conducted a Remedial Investigation, design, and remediation of a former industrial landfill site into a new riverfront marina complex, including extensive soil boring and groundwater sampling. Developed plans and obtained approval of state officials to allow on-site encapsulation of the contaminated soils in a containment cell, which was designed to incorporate a slurry wall, capping system, dewatering system, and soil retaining wall. Prepared bid documents and specifications for construction of the cell. Performed full-time monitoring of the remediation and marina construction. Sampled additional areas of contamination encountered during the construction, and evaluated and appropriately remediated in a short time frame to allow the construction to proceed on schedule. Following completion of marina construction prepared and submitted a comprehensive report of the remedial activities to state officials for closure approval.



Under/Aboveground Storage Tanks

Project Manager/Project Engineer – UST Removal/Replacement

Directed and managed the investigation, remediation, removal and replacement of leaking underground storage tanks (UST's) at 85 sites under one contract for a large municipality. The results of the project include removal and successful closure of over 100 tanks, design and installation of replacement UST systems at 17 sites, and the design and installation of equipment upgrades at eight sites.

Directed a design-build project for removing, replacing or upgrading UST's at 9 different sites for a major municipality to reduce costs and delays due to impending regulatory fines. Comprehensive audits were conducted to determine the level of compliance and assist the owner in prioritizing actions. New UST systems or upgrade components were designed, including plans and specifications, for state approval. Existing UST's were removed and new UST's or upgrades were installed, with all activities coordinated with state regulators. A total of 4 UST systems were upgraded, 12 UST's were removed and closed, and 2 new UST systems were installed. Following the installations, training was provided to site personnel on the operation of the new systems as well as record-keeping procedures.

Project Manager/Project Engineer – UST Audits/Replacement

Directed compliance audits, upgrades, removal and replacement of underground storage tank (UST) systems for a major metropolitan hospital system under a design-build delivery program. The tanks were part of the hospital's emergency generator systems and all activities were conducted in accordance with the hospital's emergency preparedness plans to maintain power generating capabilities at all times. Conducted testing and audits of existing equipment and records to determine compliance with federal and state regulations. Conducted feasibility studies and submitted recommendations for upgrading tanks not in compliance. Non-compliant tanks were then replaced or upgraded, as necessary under a design-build delivery system. Filed all required reports and registration documents with state officials, to ensure compliance with current regulations. Remediated soil contamination and free product at nine sites where releases had occurred.

Project Manager – Fuel Release Cleanup

Directed and managed the cleanup of soil and groundwater contamination from leaking underground storage tank piping. Monitored removal of the piping and tanks, performed soil investigations and a hydrogeologic investigation to define the extent of contamination and plume movement, designed and implemented a free product recovery and treatment system. The system included total fluids pumping for hydraulic control, phase separation for free product, groundwater treatment with activated carbon, and discharge to a sanitary sewer under permit. Further groundwater modeling and risk assessments demonstrated that remaining contaminant concentrations would not leave the site and were safe for onsite workers. The success of the cleanup was documented via quarterly monitoring, release closure reports were submitted to state regulators, and an Industrial closure was obtained for this site.

Environmental Investigation and Remediation Project Manager – Plating Waste Investigation

Directed and supervised the Remedial Investigation and Feasibility Study (RI/FS) of a riverfront industrial site contaminated by historical plating operations. The site history included landfilling and relocation of an adjacent river, and filling of plating waste



Environmental Investigation and Remediation (cont'd) Project Manger – Plating Waste Investigation (cont'd)

sludge lagoons. The Remedial Investigation was begun by mapping the development of the site through historical records to identify the probable former river alignment, former sludge lagoon locations, and history of building expansions. Soil borings were then performed to define the exact subsurface locations of the buried sludge lagoons and former river alignment, and to characterize the stratigraphy. Groundwater monitoring wells were installed and sampled to investigate the groundwater flow direction and quality in the vicinity of the former and current river locations. Modeling of the groundwater flow regime was then performed to assess contaminant transport of metals and chlorinated compounds from the sludge lagoons to the existing river, and a mixing zone analysis was performed to determine plume concentrations venting to the river. A focused Feasibility Study was then conducted to evaluate methods to mitigate the sludge lagoon as the source of continued groundwater impact and to remediate the contaminated groundwater plume.

Project Engineer/Manager – Riverfront Industrial Site

Directed and supervised a Remedial Investigation/Feasibility Study of a vacant, 45-acre, riverfront industrial site, which formerly housed stove manufacturing, tire manufacturing, and coal gasification operations. Reviewed historical information, prepared work plans for review by state officials, performed geophysical surveys, conducted soil borings and installed monitoring wells for soil and groundwater characterization. Performed a hydrogeologic study to model groundwater flow and the impacts of coal tar residues. Following an evaluation of all soil and groundwater data, performed a risk assessment, summarized appropriate remediation and closure options, and presented findings in a report to the owner and state officials. Performed a feasibility study to evaluate appropriate redevelopment options for the site as well as environmental impacts on future construction activities.

Project Manager – As-Needed Services Contract

Directed and supervised various emergency response and environmental cleanup activities on an as-needed service contract with a large municipality. Provided immediate response to any and all environmental emergencies directed by the owner. Performed initial responder functions, investigated the nature of the emergency, assessed the response teams and equipment needed, mobilized the necessary resources to perform the response, directed and documented the cleanup activities, and prepared summary and closure reports, as required by the owner as well as state and federal agencies.

Project Manager – Wastewater Facility Siting

Directed site assessment and waste characterization services for a large Combined Sewage Overflow (CSO) construction project. Performed site investigation activities of several parcels under consideration to assist the design team in selecting the most feasible site. Defined the extent and severity of contamination through soil and groundwater sampling, presented remediation or disposal options to the owner, and developed cost estimates for the environmental impacts on construction. Prepared portions of the construction project specifications relating to worker health and safety and handling and disposal of contaminated materials. Also performed hydrographic surveys and sediment sampling of CSO deposited wastes in an adjacent creek to develop volume estimates, performed feasibility studies for removal and disposal of the wastes, and prepared plans and specifications for dredging and disposal.



Environmental Investigation and Remediation (cont'd) Project Manager/Engineer – Abandoned Drum Site

Directed the assessment and cleanup of abandoned drums at a former Superfund site encountered during construction of a new municipal building. Sampled and characterized the contents of exposed drums, prepared the drums for shipment and disposal of hazardous wastes. Researched the site history, performed soil and groundwater sampling in the vicinity of the drums to determine the extent of subsurface contamination, conducted geophysical surveys (magnetometer) to determine the likelihood of additional buried drums, and performed a risk assessment to evaluate potential impacts on construction workers and future occupants of the site.

Environmental Compliance Audits

Project Manager - Water Facilities Compliance Audit

Directed a team of auditors to perform compliance inspections at four water treatment plants and eleven pumping stations. Developed Spill Prevention, Control, and Countermeasures (SPCC) plans for each of the facilities and implemented them within a very short time frame to avoid regulatory violations. Also performed a "waste sweep" at each of the facilities to remove and dispose improperly stored wastes, and developed appropriate waste storage procedures to comply with the SPCC goals.

Project Manager/Engineer - Compliance Audit

Performed a compliance audit at a municipal service yard with warehouses, automotive shops, mechanical shops, and fuel storage. Conducted inspections of the entire facility to identify regulatory deficiencies in practices and equipment and performed drum sampling and characterization of unidentified wastes. Developed Spill Prevention, Control, and Countermeasures (SPCC) plan and Pollution Incident Prevention (PIP) plan for appropriately storing and handling the hazardous and non-hazardous materials in use as well as wastes. Also developed a Chemical Storage and Disposal handbook for use in employee training and orientation, and conducted initial training sessions to implement the new plans.

Project Manager - Risk Management Plans

Directed and managed the development of Risk Management Plans (RMP's) at five municipal water treatment plants. The RMP's were required by the EPA due to large quantities of hazardous chlorine gas in use at the facilities. Modeling ("consequence analysis") was performed to predict the migration of chlorine gas away from the facility in the event of a catastrophic failure of chlorine equipment. A Process Safety Management (PSM) analysis was also conducted to determine the adequacy of equipment and procedures in handling chlorine and the preparedness of the plants in dealing with chlorine emergencies. After completion of the RMP's, public information sessions were conducted to alert nearby residents of the results of the consequence analysis, as required by the EPA regulations

Registrations

Registered Professional Engineer - State of Michigan Certified Underground Storage Tank Professional - State of Michigan

Certifications

40 hour Hazardous Waste Operations Training; 8-hour yearly refresher courses, MIOSHA.